JAMES SCHOFIELD

Full Stack Developer | AI Professional | TS/SCI

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Full Stack Developer with 5+ years of experience designing and deploying secure, scalable web applications using modern frameworks such as React.js and Next.js. Proven ability to architect end-to-end solutions across frontend and backend systems, with a strong emphasis on performance optimization, user-centric design, and maintainable codebases. Brings advanced expertise in cybersecurity principles and data analysis, backed by a B.S. in Cyber Security and a Minor in Data Science, enabling the development of applications that are both highly functional and resilient against evolving threats.

Currently operating in a high-impact environment supporting enterprise and government-level initiatives, contributing to the development of AI-driven tools, data analytics platforms, and mission-critical applications. As a U.S. Navy Reservist holding an active DoD TS/SCI clearance, applies a disciplined, security-first mindset to software engineering, ensuring compliance, operational integrity, and reliability in sensitive environments. Additionally, serves as a React.js instructor, mentoring transitioning military personnel and fostering the next generation of developers through hands-on, practical training.

LINKS

GitHub: github.com/Jt-schofield1 **LinkedIn:** linkedin.com/in/james-schofield1

Portfolio: www.jamesschofield.com

SKILLS

Languages & Frameworks: JavaScript (ES6+), TypeScript, Python, Go, Rust, HTML5, CSS3, React.js, Next.js, Node.js, React Native

Frontend Development: Tailwind CSS, shadcn/ui, Material UI (MUI), Styled-Components, Framer Motion, Responsive & Mobile-First Design, Component Architecture, State Management, React Hooks

Backend & APIs: Node.js, Express.js, RESTful API Design, Firebase (Authentication, Firestore, Cloud Functions), Supabase, JWT Authentication, MongoDB, MySQL, Elasticsearch (Search & Vector Indexing)

DevOps & Infrastructure: Docker, Vercel, Netlify, CI/CD Pipelines, Environment Management, Cloud & On-Prem Deployment, Domain & DNS Configuration

AI & Automation: LLM Integration (Claude, OpenAI, OpenRouter), Local LLM Deployment (Ollama, vLLM), Prompt Engineering, AI Agent Workflows, Retrieval-Augmented Generation (RAG), Vector Search & Embedding Pipelines, End-to-End AI Application Development (Frontend → Model → Deployment), Automation Pipelines

On-Prem & Secure Systems: Secure On-Prem Application Hosting, Air-Gapped / Restricted Network Deployments, Enterprise AI System Integration, Self-Hosted LLM Infrastructure

Tools & Developer Ecosystem: Cursor IDE, Git, GitHub, Postman, VS Code, Resend (Email APIs), Stripe (Payments), Expo, Cloudinary

Data & Visualization: Data Analysis, Data Modeling, Chart.js, Dashboard Development, API Data Integration

Security & Access Control: Secure Coding Practices, Role-Based Access Control (RBAC), Authentication & Authorization Flows, TS/SCI Clearance

EMPLOYMENT HISTORY

SENIOR FULL STACK ENGINEER | IDST

May 2026 – Present

Iron Eagle X

Tampa, FL

- Lead end-to-end architecture and delivery of 20+ production applications for SOCCENT under the Titanium Dolphin / SOCCENTGPT program, spanning air-gapped NIPR and SIPR environments—owning system design, data modeling, API contracts, and UI architecture from concept through deployment
- Played a key role in GDIT securing the SOCCENT CDAO contract, building and demonstrating the AI platform and application portfolio that anchored the technical proposal and established the program's credibility with SOCCENT leadership
- Plan and scope new applications with J-code directorate stakeholders, translating mission requirements into technical roadmaps, sprint plans, and phased delivery milestones that consistently ship on schedule
- Serve as technical lead for the development team: review all team members' pull requests, enforce coding standards and secure development practices, and mentor engineers on React/TypeScript, FastAPI, and containerized deployment patterns
- Own the release pipeline across security domains—pushing, reviewing, and merging code on NIPR, then packaging and validating builds for cross-domain transfer and deployment to SIPR with full configuration parity and zero regressions
- Architected reusable platform foundations—shared authentication (CAC/LDAP/Entra ID), hierarchical RBAC, Elasticsearch RAG services, and a common React component library—cutting new-application build time dramatically across the portfolio
- Integrate on-prem LLMs, RAG pipelines, and automation workflows into mission applications, turning manual intelligence and administrative processes into AI-assisted tools adopted across SOCCENT directorates
- Brief senior leadership and government stakeholders on application roadmaps, AI capability demonstrations, and technical trade-offs, serving as the primary engineering voice between the contractor team and the customer

SENIOR DATA ANALYST | IDST Sep 2025 – May 2026

Iron Eagle X *Tampa, FL*

- Designed and implemented secure on-prem AI infrastructure, leveraging local LLM hosting (Ollama: chat, embeddings, vision), Elasticsearch 8.x vector search, and internal GenAI APIs to enable fully self-contained, multi-modal inference (text, image, speech) without external cloud dependencies
- Engineered a full DevOps pipeline orchestrating 14 containers with persistent storage, Express-based reverse proxy (rate limiting, path routing), and environment-based configuration for seamless NIPR/SIPR deployment parity, alongside Kibana/Elasticsearch observability—enabling one-command deployment (docker-compose up) with zero manual setup
- Lead development of AI-enabled, intelligence-focused applications supporting SOCCENT J2 operations, delivering 15+ secure applications across air-gapped, NIPR, and SIPR environments using modern full-stack and AI technologies
- Architect and deploy on-prem, secure AI systems integrating LLMs, RAG pipelines, automation workflows, and real-time data processing to enhance intelligence analysis, operational decision-making, and mission planning
- Drive AI adoption and awareness across SOCOM, introducing cutting-edge tools, conducting demonstrations, and enabling leadership to operationalize AI capabilities within classified environments
- Contribute to strategic growth and innovation efforts, directly supporting GDIT in positioning and development for new contract vehicles, including FORGE OTA and SOCCENT CDAO OTA
- Engineer and deploy real-time, mission-critical systems, including multi-drone C2 platforms supporting large-scale UAS operations, with WebSocket-based telemetry, RBAC access control, and distributed user coordination
- Build and scale intelligence automation tools that reduce manual analyst workload, streamline data ingestion and processing, and enable faster, more accurate insights across J2 workflows
- Collaborate with cross-functional government and contractor teams to deliver high-impact, production-ready solutions in fast-paced, high-security environments

FREELANCE FULL STACK DEVELOPER Jun 2020 – Sep 2025

ERA Solutions / COITB *Remote*

- Developed and maintained full stack applications using Next.js, Tailwind CSS, MongoDB, and Chart.js, including a Vendor Management Dashboard for business analytics and performance tracking
- Built secure, scalable admin/vendor interfaces with JWT authentication, RESTful APIs, real-time metrics, and responsive UI/UX optimized for mobile and accessibility
- Applied cybersecurity best practices and modern dev workflows (React Hooks, SSR, GitHub, SEO, secure coding) while also supporting resume tools and dashboards for client branding and job readiness

REACT.JS INSTRUCTOR

Jun 2025 – Sep 2025

COITB

Remote

- Instruct transitioning military and veterans in React.js fundamentals, including JSX, hooks, state management, routing, and API integration—preparing them for certification and industry roles
- Mentor students through hands-on projects, code reviews, and personalized feedback to build job-ready portfolios and GitHub proficiency using clean code and modern practices
- Collaborate with COITB leadership to refine curriculum, align content with current tech standards, and integrate career readiness through resume, LinkedIn, and GitHub development support

CRYPTOLOGIC TECHNICIAN TECHNICAL

Jun 2022 – Present

United States Navy Reserves

Detroit, MI

- Attached to CWG-6 Detroit, providing support in signal intelligence operations and maintaining readiness as part of the command
- Serve as an Active Reservist, consistently maintaining readiness through regular training and operations
- Hold an Active DOD TS/SCI for CI Poly Clearance, ensuring compliance with security protocols in all intelligence operations
- Coordinate advanced signal intelligence operations while managing readiness of 15+ sailors, implementing secure protocols under TS/SCI clearance for mission-critical tasks
- Analyzed intelligence data to inform decision-making, resulting in strategic advantages during operations and improved overall mission effectiveness

RELEVANT PROJECTS

SOCCENTGPT / TITANIUM DOLPHIN

- Architected and deployed a 14-service containerized AI platform (Docker Compose) for USSOCOM, hosted entirely in on-prem, air-gapped NIPR and SIPR environments, integrating a React 18 SPA with FastAPI/Flask microservices, Elasticsearch RAG pipelines, and Ollama/DoD GenAI LLM backends with CAC/LDAP/Entra ID authentication
- Built 5 mission-critical tools supporting multiple J-code directorates, including an AI-powered J1 Help Desk (RAG + document processing), Surrogate Tracker (CICA) with LDAP RBAC, Data Maturity Assessment suite with automated reporting, Troops-to-Task personnel system (Excel ingestion/export), and Tasker Management Tracker (TMT) with audit trails—reducing manual administrative workload

C2 DRONE DASHBOARD

- Architected and deployed a real-time, multi-drone C2 web application supporting 12,000+ UAS fleet operations, leveraging MAVLink protocol over WebSocket-bridged serial connections with sub-second telemetry latency
- Engineered a hierarchical RBAC system (Admin → Tactical Commander → Operator) with team-based drone assignment, enabling granular visibility and control across concurrent multi-user operations
- Built full-stack with FastAPI (Python), React/TypeScript, and Zustand state management; containerized via Docker Compose and deployed on AWS with CI/CD pipeline
- Delivered mission planning, real-time GPS tracking, and automated drone-to-operator assignment, reducing manual coordination overhead and enabling tactical commanders to manage distributed teams and assets from a single interface

POLYHQ | PREDICTION MARKET ANALYTICS PLATFORM

- Architected a full-stack real-time analytics platform using Next.js 14, TypeScript, React, Tailwind CSS, Prisma, and Supabase, featuring WebSocket-based live market data streaming, interactive price/orderbook visualizations, and AI-powered market analysis via LLM integration (Perplexity API)
- Engineered proprietary trading algorithms including cross-market arbitrage detection, whale activity tracking, and temporal arbitrage bots that analyze price discrepancies across 1,800+ prediction markets with $2.4B+ in trading volume
- Integrated 12+ external data sources (news APIs, sports odds, crypto prices, economic indicators, weather data) into a unified data pipeline, enabling comprehensive market correlation analysis and predictive modeling for informed trading decisions
- Implemented monetization infrastructure with Stripe-based subscription system, role-based access control, and user session management, supporting tiered feature access for free, pro, and enterprise users

38 MORE PUBLIC/PRIVATE REPOSITORIES ON MY GITHUB

RELEVANT EDUCATION

BACHELOR OF SCIENCE: CYBER SECURITY AND DATA SCIENCE

2021 – 2025

Mercyhurst University — *Erie, PA*

- Bachelors of Science with a Degree in Cyber Security and Minor in Data Science
- Cyber Security and Data Science Club Member, 2022-Present
- Dean's List: Spring 2025, Fall 2024, Spring 2024, Spring 2023

FULL STACK WEB DEVELOPMENT COURSES

ERA Solutions — *Remote*

- Completed courses and achieved certifications in JavaScript, HTML/CSS, MySQL, and React.js

CERTIFICATIONS

- Active DOD TS/SCI with CI Poly Clearance
- COITB Professional JavaScript Developer Certification #5938
- COITB MYSQL Backend Developer Certification #6009
- COITB HTML/CSS Web Designer Certification #6081
- COITB React.js Framework Developer Certification #6145

COMMUNITY SERVICE

ELMWOOD GARDENS RETIREMENT HOME
Volunteered at Elmwood Gardens assisting residents and supporting staff operations.

METROPOLITAN MINISTRIES
Volunteered to help serve food to the community and provide a safe place for residents and teachers to eat.