

Tyler S. Campbell

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Wadsworth, OH | GitHub: [t36campbell](https://github.com/t36campbell) | LinkedIn: [t36campbell](https://www.linkedin.com/in/t36campbell) | Portfolio: tylercampbell.space

Principal Full Stack Software Engineer with an M.Sc. in Computer Science and over a decade of experience architecting TypeScript, Rust, Go, and Python applications for the Fortune 500, high-growth startups, and mission-critical government operations. An engineer-first leader guiding cross-functional teams from greenfield design to production. Recognized for delivering measurable full-stack performance gains, drastically reducing operating costs, and shipping revenue-generating products that win enterprise clients. A proven authority on distributed systems and agentic AI adoption, translating emerging technology into practical workflows that lift productivity across engineering and business operations

EXPERIENCE

Pharmacy Data Management, Inc. (PDMI)

May 2025 – Present

Principal Full Stack Software Engineer

Medina, OH (Remote)

Chief engineer & architect driving the ground-up modernization of a \$10B/yr pharmacy claims SaaS and championing organization-wide adoption of agentic AI workflows

Tech Stack: TypeScript, Go, Python, Node.js, React, MongoDB, PostgreSQL, Redis, Docker, Kubernetes

- Architected a next-generation Golang claims adjudication engine spanning ingress, routing, and billing, doubling throughput, and cutting processing time by 60%, responding to 500M+ annual prescription transactions in less than 200ms
- Unlocked a new revenue stream by shipping an AI enhanced self-service benefit configuration SaaS, reducing go-live timelines from weeks to days, retiring manual client onboarding.
- Modernized a simulated pricing tool central to customer acquisition, delivering faster and more accurate repricing of historical claims, and converting 4 net-new enterprise clients within a month of release
- Spearheaded company-wide adoption of Agentic AI, authoring LLM training modules and best practices that boosted development throughput across 30+ developers without introducing regressions, allowing a 25% reduction in offshore contractors
- Delivered a reusable AI chatbot framework that enables rapid deployment of domain-specific agents, one of which diverted 18% of inbound call volume and reclaiming customer support hours from Tier 1 escalations

Upwork

Aug 2024 – Present

Senior Full Stack Software Engineer

Medina, OH (Remote)

Freelance e-commerce specialist collaborating on multiple projects with startups & small businesses to develop Stripe & Shopify integrations, working directly with CEOs and Founders to make feature concepts a reality

Tech Stack: TypeScript, Rust, Node.js, Next.js, React, TailwindCSS, GraphQL, PostgreSQL, Redis, Docker, Kubernetes

- Enabled aspiring musicians to collect monetary support from their followers on a growing crowdfunding platform using Stripe Connect, the same payment solution that powers DoorDash, Instacart, and Shopify
- Implemented a usage-based tiered subscription model for an innovative authentication startup using Stripe
- Designed a Next.js frontend for a headless Shopify store, empowering a small business to reach a broader audience

Tufin

May 2022 – Sept 2024

Senior Full Stack Software Engineer

Fairlawn, OH (Hybrid)

Creator of tailor-made extensions to a network security SaaS application for Apple, IBM, Pfizer, USPS, Verizon, and Volkswagen, providing best-in-class network security automation to over half of the Fortune 50

Tech Stack: TypeScript, Python, React, Node.js, FastAPI, GraphQL, MongoDB, PostgreSQL, Redis

- Authored a customizable distributed application template that employs a multi-threaded task queue, cutting the development time of compliance auditing solutions in half, raising project earnings by \$25k+, \$150K+ annually
- Promoted an open-source ecosystem that fosters customer autonomy as the technical lead of multiple SDKs enacting standards & authoring vital features, reducing annual development costs for our customers by \$120K+
- Automated the generation of SDK code for 3 APIs, translating in a \$90K+ annual cost reduction, adding support for multiple languages, improving documentation, and reducing the team's overall workload
- Standardized customer support troubleshooting by automating nine common workflows with Ansible, increasing customer satisfaction by 10% & increasing team productivity, resulting in a \$45k+ decrease in annual labor costs
- Developed a backend API to automate the import of 10k+ Cisco firewalls and switches, saving \$90k+ per year
- Exponentially improved runtime efficiency of 20 customer projects during the conversion to a micro-service architecture, increasing system responsiveness and reducing ecological impact and costs by \$3k+ per year

McSteen Land Surveyors

Jan 2021 – May 2022

Full Stack Software Engineer

Wickliffe, OH (Hybrid)

Architect who led the design of an order processing frontend built for land surveyors serving multiple states for 50+ years

Tech Stack: TypeScript, Python, Angular, Node.js, Django, PostgreSQL, Redis

- Executed a complete frontend redesign in under six months, using Angular to provide a superior user experience
- Developed a backend system that dynamically generates 3K+ invoices annually, avoiding \$1.2k+ in yearly fees
- Reduced monthly production costs by \$1K+ & improved user experience by implementing Google's static maps

Central Ohio Transit Authority

Oct 2019 – May 2020

Information Technology Intern

Columbus, OH (Hybrid)

Aided software development, system, network, & database admins to facilitate 20M rides to greater Columbus

Tech Stack: TypeScript, Python, React, Node.js, PostgreSQL

- Orchestrated installation of 36 multi-media devices to increase awareness of company news and activities
- Facilitated the removal of 400+ Windows 7 workstations through hardware & software upgrades to Windows 10
- Provided technical support to 500+ employees, such as setting up remote network access during COVID lockdown

United States Air Force

Oct 2014 – Sept 2018

Avionics Technician

Ramstein-Miesenbach, Germany

Radar, radio, navigation, and defensive countermeasure systems maintainer on the C-130J Super Hercules.

- Subject Matter Expert tasked with supervising maintenance on twelve \$70M+ aircraft, supporting the 86th Airlift Wing in the execution of airlift, airdrop, and aeromedical evacuation throughout The Global War on Terror.
- Utilized system knowledge to troubleshoot and repair faulty equipment to ensure the safety of all passengers

EDUCATION

Franklin University

Aug 2024

Master of Science in Computer Science

Columbus, OH

Capella University

Oct 2020

B.Sc. Bachelor of Science in Information Technology

Columbus, OH

SKILLS & QUALIFICATIONS

Languages:	TypeScript / JavaScript, Python, Rust, Go, Java, HTML, CSS, GraphQL, MQL, SQL
Frontend:	React, Next.js, Angular, Svelte, TailwindCSS, Sass/SCSS, Gatsby, Vue, SPA, SSR/CSR/SSG, UI/UX
Backend:	Express, Node.js, Nest, Prisma, Rocket, Axum, Actix, FastAPI, Django, Flask, TensorFlow, PyTorch
Database:	PostgreSQL, Redis, MongoDB, Neo4j, RDBMS, NoSQL, Key-Value, Graph, Vector, In-Memory
DevOps:	Docker, Kubernetes, Ansible, Terraform, Container Orchestration, CI/CD, IaC, Automation
Technical:	Git, Linux, V.S. Code, Copilot, Cursor, Continue, LLMs, Machine Learning, Generative AI, TDD
Services:	AWS, Azure, Cloudflare, Firebase, GitHub, GitLab, Google Cloud Platform (GCP), Heroku, Jira