# Tyler S. Campbell

Senior Full Stack Software Engineer  |  (440) 364-9817  |  tcampbell3683@gmail.com

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Passionate Senior Full Stack Software Engineer with a M.Sc. in Computer Science and a decade of experience crafting highly performant TypeScript, Python, and Rust applications. Expertise in collaborating with cross-functional teams at Fortune 500 companies and startups to transform ideas into successful products. Consistently enhancing operational efficiencies, leading to significant cost reductions, and driving business value while maintaining a strong focus on user experience and customer satisfaction. With a firm commitment to continuous learning and innovation to ensure alignment with industry trends while delivering exceptional results that address business goals and technical challenges.

## SKILLS & QUALIFICATIONS

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|---|---|
| **Programming Languages:** | TypeScript / JavaScript, Python, Rust, Java, HTML, CSS, GraphQL, MQL, SQL |
| **Frontend:** | React, Next.js, Gatsby, TailwindCSS, Sass, Angular, Vue |
| **Backend:** | Express, Nest, Prisma, Rocket, Django, Flask, FastAPI |
| **Database:** | PostgreSQL, Redis, MongoDB, Neo4j |

## EXPERIENCE

### Senior Full Stack Software Engineer          Upwork          Aug 2024 – Present

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, Next.js, React,* TailwindCSS*, GraphQL, PostgreSQL, Redis*

- 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 customized Next.js frontend for a headless Shopify store, empowering a small business to share its curated collection of knives with a broader audience.

### Full Stack Software Engineer          Tufin          May 2022 – Sept 2024

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, 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.

**Full Stack Software Engineer**             **McSteen Land Surveyors**             **Jan 2021 – May 2022**

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, 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.

**Information Technology Intern**             **Central Ohio Transit Authority**             **Oct 2019 – May 2020**

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

*Tech Stack: TypeScript, React, 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

**Avionics Technician**             **United States Air Force**             **Oct 2014 - Sept 2018**

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.
- Evaluated electrical systems by analyzing test data to verify functionality and assess equipment operation, including the Flight Data Recorder, Weather Radar, GPS, and the Mission Computer, the brains of the aircraft.
- Utilized system knowledge to troubleshoot and repair faulty equipment to ensure the safety of all passengers.

EDUCATION

**M.Sc. in Computer Science**             **Franklin University**             **Aug 2024**

**B.Sc. in Information Technology**             **Capella University**             **Oct 2020**

OPEN-SOURCE PROJECTS

**Toretsu**             **github.com/t36campbell/toretsu**             **Apr 2024**

A novel approach to a task queue, implemented in Rust, with the ability to store & process billions of nodes in seconds.

**Algo**             **github.com/t36campbell/algo**             **Feb 2024**

A collection of reconstructed implementations of common data structures and algorithms written in Rust.