Tyler S. Campbell

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

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Passionate Full Stack Software Engineer and U.S. Air Force veteran awaiting an M.Sc. in Computer Science with nine years of experience creating high-performance, scalable applications with TypeScript, Python, and Rust. Extensive background designing frontend applications utilizing frameworks like Next, React, and Angular with TypeScript. Well-versed in designing backend applications in Python and Rust built with frameworks like Django, FastAPI, and Rocket. Adept at optimizing code performance and leveraging automation to drive substantial cost savings, through which profits increased by $2.19M+, and customers eliminated $3.88M+ in costs this year alone.

SKILLS & QUALIFICATIONS

Programming Languages:	TypeScript / JavaScript, Python, Rust, Java, HTML, CSS,
Backend Frameworks:	Gatsby, Rocket, Django, Flask, FastAPI, Express, Nest, Prisma
Frontend Frameworks:	Angular, React, Next, Gatsby, TailwindCSS, Sass, Vue
Query Languages:	GraphQL, MQL, SQL
Databases:	MongoDB, PostgreSQL, Redis
Services:	Cloudflare, Auth0, AWS, Firebase, Google Cloud, Heroku, Digital Ocean, GitHub

EXPERIENCE

Full Stack Software Engineer   ***Tufin***   ***May 2022 – Present***

Creator of bespoke extensions to a SaaS application for clients like Apple, Pfizer, and Verizon at a $100M+ network security company that provides best-in-class network security policy automation.

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

- Authored distributed application template employing a multi-threaded task queue, enabling 75% faster development of custom reporting solutions, raising net earnings by $678K+ annually.
- Automated SDK generation of 3 APIs, creating 528 public methods and docstrings, translating in $1.1M yearly cost efficiencies, reduced team workload, improved documentation, and multi-language support.
- Promoted an ecosystem that fosters customer autonomy, yielding $1.49M annual cost reduction as technical lead of open-source SDKs and libraries, enacting standards, and authoring vital features.
- Increased team productivity and performance consistency by automating nine common workflows with Ansible, resulting in a decrease of $412k+ in annual labor costs.
- Exponentially improved runtime efficiency of 20 customer solutions during the conversion to micro-service for distributed application, reducing costs by $2.07M+ per year.
- Designed API to automate the import of 10k+ firewalls and switches, saving $315k+ per year.

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

Architect that led design of order-processor frontend, built for surveyors serving multiple states for 50+ years.

Tech Stack: TypeScript, Python, Angular, Django, PostgreSQL, Redis

- Developed a backend system that dynamically generates 3k+ invoices per year.
- Executed a complete frontend redesign in under six months, replacing Bootstrap with Angular Material.
- Reduced monthly production costs by $600+ and improved UX 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 replacement of 36 multi-media devices to increase awareness of company activities.
- Facilitated the removal of over 400 Windows 7 workstations through hardware and software upgrades.
- Provided technical support to 500+ employees, such as configuring remote network access.

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 conducting and supervising maintenance on a fleet of 12 aircraft.
- Applied system knowledge to troubleshoot operational issues and identify practical solutions.
- Tested electrical systems to ensure functionality by analyzing test data to assess equipment operation.

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 simple binary heap task queue, constructed with Rust; 1B+ node capacity & processing 10M+ in seconds.

Apli　　　　**github.com/t36campbell/apli**　　　　*Apr 2024*

A Typescript Command Line tool that reduces time spent on filling out a dozen companies' job applications.

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

A collection of common data structures, algorithms, and LeetCode problems implemented in Rust.