Samuel L. Clark

Full-Stack Software Engineer

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ABOUT ME

A results-oriented Full-Stack Software Engineer with over 5 years of experience in designing, developing, and maintaining high-performance user interface applications and backend systems. Expertise in Python, JavaScript/TypeScript, and C/C++, with a demonstrable history of leading the adoption of best practices. Passionate about creating scalable solutions for complex technical challenges, with a focus on delivering measurable business value.

EXPERIENCE

Posit | Software Engineer
January 2025 - Now

- Working with the Positron team to create a new IDE designed specifically for data science practitioners.

Brookhaven National Laboratory | Advanced Technology Engineer | Upton, NY
July 2019 - January 2025

- Spearheaded the redesign of a critical web application for tracking quality assurance for a novel project, utilizing NodeJS, Express, React, and MongoDB.
- Architected and deployed a web-based configuration management system for over 2,500 distributed processes using Python and Django, with front-end components in React.
- Led the design and maintenance of 50+ user interface applications and backend servers, serving as the lead Python developer across multiple projects.
- Championed the adoption of GitLab version control, CMake build system for C++ development, and Anaconda for Python environments, significantly improving developer productivity.
- Developed and conducted a training series on version control and development environments, enhancing knowledge transfer among 30+ developers.

Saab Sensis | Systems Engineering Intern | Syracuse, NY
June 2018 - June 2019

- Engineered a JavaScript-based tool for extensible data injection and recording, facilitating product integration testing.
- Refactored legacy web services, integrating RESTful APIs to support more efficient product integration processes.
- Collaborated closely with multidisciplinary groups to maintain and enhance a complex, monolithic JavaEE-based monitoring and maintenance system.

EDUCATION

Georgia Institute of Technology | M.S. in Computer Science | Atlanta, GA
August 2021 - December 2023

- Specialization in Computing Systems with a focus on cloud computing architectures, network design, and operating system architecture.
- GPA: 3.62

Stony Brook University | B.S. in Computer Science | Stony Brook, NY
August 2015 - May 2019

- A core focus on programming design patterns, systems-level programming, and database design.
- Graduating GPA: 3.60, *Cum Laude*

PROGRAMMING LANGUAGES

Python, JavaScript/TypeScript, Rust, Go, Java, C/C++

FRAMEWORKS & LIBRARIES

Django, FastAPI, Express, React, Next.js, Angular, Spring, JavaEE

TOOLS

Github, GitLab, Gitlab CI/CD, Docker, Anaconda, CMake, NPM/Yarn

DATABASES

MySQL, MongoDB, PostgreSQL, ElasticSearch, Redis, SQLite

Publications

"Standardizing a Python Development Environment for Large Controls Systems," ICALEPCS 2021

"Reflective Servers: Seamless Offloading of Resource Intensive Data Delivery," ICALEPCS 2023

"Enhancing Electronic Logbooks Using Machine Learning," ICALEPCS 2023

PROJECTS

LLM-based Lecture Summarization Tool

Interactive Drag & Drop Form-Builder for React

Rust-based Operating System Design