

Samuel Mount

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EDUCATION

Rutgers, The State University of New Jersey Computer Science, B.S.

New Brunswick, NJ, **Jan 2024 - May 2026**

Mercer County Community College Computer Science, A.S.

West Windsor, NJ, **May 2022 - Dec 2023**

EXPERIENCE

Full-Stack Software Engineer

January 2026 - Present

Change Now - Fitness Visualizer Capstone | React Native, Node.js, Express, PostgreSQL

New Brunswick, NJ

- Sole backend owner — architected the REST API, auth system, middleware stack, PostgreSQL schema, and deployment infrastructure from the ground up.
- Led release planning across alpha, beta, and v1.0 milestones for a 5-person team; delegated features by skill and bandwidth, ran standups, and personally unblocked critical issues — from broken deploys to misaligned requirements — to ship on schedule.
- Automated deployments via GitHub Actions → Docker → ECR → EC2 with SSM and Nginx; cut build time 48% with layer caching and enforced Playwright + Jest gates before every merge.
- Built JWT + HTTP-only cookie dual-mode auth with protected routes, OpenAPI/Swagger docs, CORS config, and env management — established as the architectural standard adopted across the codebase.
- Designed the PostgreSQL schema on Supabase with referential integrity across users, exercises, and workout logs; wrote unit, integration, and E2E test suites (Jest + Playwright) that ran in CI.
- Configured production domain, Nginx, and HTTPS/SSL on EC2; authored branch protection rules, build scripts, and deployment scripts — zero unplanned downtime across all 3 releases.

OIT Lab Supervisor & Desktop Support

April 2024 - Present

Rutgers Office of Information Technology

New Brunswick, NJ

- Managed 49 IT staff across 11 lab locations; delegated dispatch operations, advised on escalations, and ensured follow-through to resolution — Supervisor of the Year 2025.
- Resolved 1,100+ tickets across VPN, Azure/Company Portal, MFA, shared drives, and Microsoft 365; used Bomgar for remote remediation with elevated credentials and escalated complex cases to specialized departments and external partners, including University Hospital & Dental School IT.
- Trained and mentored 80+ consultants in Root Cause Analysis and customer service for phone and dispatch IT support; performed quarterly QA and performance reviews.
- Authored and maintained 40+ knowledge base articles for Rutgers OIT staff and students.

PROJECTS

Fleet Management Application | Java, JavaFX, JUnit

Dec 2025

Rutgers University

- Built a Java/JavaFX desktop app to manage a university vehicle fleet — reservations, trip history, and department cost reports across a clean MVC architecture.
- Applied the Singleton pattern alongside inheritance and polymorphism to keep the model layer lightweight and free of duplicated business logic. Tested frontend and backend with **JUnit** using black-box strategies.

Air Quality Dashboard | Python, Tkinter

April 2023

- Built a Python/Tkinter air quality dashboard pulling live data from a weather API, displaying AQI metrics across 8 dynamically repositioning widgets that reflow as cities are added for side-by-side comparison.
- Quantified AQI metrics by changing their color from lighter greens to crimson to enhance user understanding.

SKILLS & AWARDS

Languages: Java, TypeScript/JavaScript, Python, C, SQL, HTML/CSS

Frameworks & Libraries: React Native, Node.js, Express, Jest, Playwright, JUnit, JavaFX

Platforms & DevOps: AWS EC2 & ECR, Docker, Supabase, GitHub Actions, Nginx, Railway, Icinga, Grafana

Tools & Software: Git, OpenAPI/Swagger, JWT, ServiceNow, TeamDynamix, Google & Microsoft Suites

Awards: Supervisor of the Year — OIT Busch and Cook/Douglass Labs 2025

Relevant Coursework: Intro to Artificial Intelligence, Systems Programming, Data Management, Data Structures & Algorithms, Software Engineering, Discrete Math II, Statistics, Linear Algebra