Fernando Rivas

Software Engineering Student | Full-Stack Development | Philadelphia, PA

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PROFILE

Computer Science student with hands-on experience in full-stack applications, Android development, C++, SQL, and software testing. Built projects spanning account-based booking workflows, mobile inventory, computational graphics, and unit-tested Java services. Seeking 2027 software engineering internship opportunities.

EDUCATION

Southern New Hampshire University — B.S. Computer Science, Software Engineering concentration | **Expected Dec 2027**

GPA: 3.8 / 4.0

Penn LPS Coding Boot Camp — Full-Stack Web Development | **2020**

SELECTED TECHNICAL PROJECTS

Secret Finish — Independent Full-Stack Booking Application | Next.js, TypeScript, MySQL, Drizzle ORM

Built a responsive appointment site with account registration/login, available/booked time slots, customer booking history, and admin booking confirmation/cancellation. Implemented database-backed API routes and supported deployment with Hostinger/Vercel.

Android Inventory Manager — CS 360 | Android Studio, SQLite, XML

Created a mobile inventory app with user authentication, add/update/remove item flows, quantity safeguards, search/filtering, and optional low-stock SMS alerts; tested validation and permissions using the emulator.

Roman Colosseum — CS 330 | C++, OpenGL, GLFW, GLM

Developed an interactive 3D scene using geometric primitives, tiled textures, multiple lights, camera navigation, reusable transformations, and perspective/orthographic projections.

Unit Testing Services — CS 320 | Java, JUnit 5, JaCoCo/EclEmma

Built contact, task, and appointment services; tested CRUD operations, business-rule validation, and invalid inputs, and reviewed automated test coverage.

ADDITIONAL ACADEMIC WORK

CS 300 Course Planner: Compared vector, hash table, and tree data structures; wrote a C++ program to load, sort, and retrieve course and prerequisite records. **Quantigration RMA:** Practiced relational modeling, SQL queries, imports/exports, and data maintenance in MySQL.

TECHNICAL SKILLS

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

Web / data: React, Next.js, Node.js, REST APIs, Tailwind, MySQL, PostgreSQL, SQLite, MongoDB, Drizzle ORM

Tools: Git/GitHub, JUnit 5, Android Studio, Eclipse, Visual Studio, OpenGL, Hostinger, Vercel

PROFESSIONAL EXPERIENCE

Sam's Club — Part-Time Retail Associate | Current

Support customer inquiries, product availability, and day-to-day retail operations while balancing university coursework. Collaborate with teammates to solve problems in a time-sensitive environment.

Bunzl — Warehouse Associate | Jul–Dec 2022 • **PJP** — Warehouse Associate | Oct 2021–Mar 2022