Brett Sumser

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EDUCATION

University of Oregon — Eugene, OR
Bachelor of Science in Computer Science, Minor in Mathematics — *Sep. 2020 – June 2024*
Relevant Coursework *Computer Graphics, Principles of Programming Languages, Automata Theory, Compilers*

EXPERIENCE

Code Sensei — September 2023 – Present
Code Ninjas — *Eugene, OR*
- Instructed children aged 7-12 in programming fundamentals using Microsoft MakeCode and JavaScript.
- Developed an adaptive input device using C, 3D printing, and electronics knowledge, enabling a student with limited dexterity to fully participate in coding activities.
- Adapted teaching methods to individual student learning styles and paces.

Server — May 2020 – Present
Ambrosia Restaurant — *Eugene, OR*
- Honed client communication, conflict resolution, and time management skills under pressure in a high-volume, customer-facing fine dining environment.
- Collaborated effectively with kitchen staff and management to ensure seamless service and customer satisfaction.
- Spearheaded development of Automated Sales Analytics Pipeline, reducing labor spent analyzing sales.

PROJECTS

Automated Sales Data & Analytics Pipeline | *Python, SQL, Excel, Regex* — April 2025 – Present
- Engineered an automated ETL pipeline in Python to parse, clean, and structure raw sales data from text files into a relational SQLite database.
- Implemented regular expressions (regex) to accurately extract key information from complex reports, handling diverse data formats and exceptions with high fidelity.
- Designed and implemented a relational SQLite database schema with foreign keys to ensure data integrity and enable efficient querying.
- Integrated the backend database with Microsoft Excel, creating a dynamic dashboard with Pivot Tables and Slicers for intuitive, multi-dimensional sales analysis by non-technical stakeholders.
- Converted unstructured data into actionable insights, successfully automating the entire workflow from raw text file to interactive business intelligence report.

Portfolio Website | *React, Node.js, PostgreSQL, Docker, Nginx, Git* — June 2024 – Present
- Developed and deployed a full-stack web application serving a personal portfolio via a Node.js REST API with a React frontend.
- Implemented CI/CD pipeline using GitHub Actions for automated testing and deployment to DigitalOcean App Platform.
- Configured Docker containers for application services and Nginx as a reverse proxy.
- Integrated Magic the Gathering card data analytics using Node.js API endpoints and PostgreSQL database.

Quack Compiler | *C, Python, Make* — Apr 2024 – Jun 2024
- Developed a compiler for an object-oriented, single-inheritance language from design specification to MIPS assembly generation.
- Implemented Backus-Naur grammar parsing, type checking, and semantic analysis based on language rules.
- Led implementation of the parsing and type-checking module using Python.
- Collaborated with and assisted fellow students in debugging and implementing compiler components during weekly sprints.

TECHNICAL SKILLS

Languages: C/C++/C#, Python, JavaScript, SQL (Postgres/MySQL), HTML/CSS
Frameworks: React, Node.js, Unity
Developer Tools: Git, Docker, AWS (EC2), Vim, VS Code, Visual Studio, Make, Nginx
Libraries: pandas, NumPy
Operating Systems: Linux (Ubuntu, Arch), Windows, macOS