

SAM DEMUTH

WILLING TO RELOCATE

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EDUCATION

Oregon State University	Bachelor of Science in Computer Science	Completed June 2024
American Military University	Bachelor of Business Administration	2019

TECHNICAL SKILLS

Languages: JavaScript, Python, HTML, CSS, C#, TypeScript, SQL(MariaDB), NoSQL(MongoDB)

Technologies: Node.js, React.js, Express.js, REST API, Power Platform, Flask, Google Cloud Platform

Tools: Git, Jira, Postman, Docker, Vite, VS Code, PyCharm

PROFESSIONAL EXPERIENCE

Software Engineer Intern | Daimler Truck North America June 2023 – September 2023

- Developed 6 applications using JavaScript and Microsoft Power Apps for form development and backend workflows.
- Configured Power Automate flows to process and transform JSON payloads, automating tasks and data integration.
- Optimized app navigation by leveraging Power Fx formulas to manage transitions and user flows based on specific conditions.
- Managed the migration of 92 department sites to SharePoint Online.
- Created documentation and conducted training for over 50 site owners on content management and security.

Full Stack Engineer Intern | SEI Investments Company June 2022 – August 2022

- Developed RESTful API endpoints using .NET within a Model-View-Controller (MVC) architecture for data exchange.
- Collaborated on the frontend with JavaScript and React.js to build user interfaces, ensuring cross-device functionality.
- Contributed to 15+ pair programming sessions focusing on backend development with C# within the .NET framework, improving code quality and backlog refinement.
- Utilized Atlassian project management toolset (Jira, Confluence, Bitbucket) for efficient task management, documentation, and code reviews.
- Demonstrated a deep understanding of Agile Methodology, actively participating in daily stand-ups, sprint planning, and retrospectives.

Operations Specialist | United States Navy June 2015 – March 2022

- Command career counselor for unit of 20 personnel, offering clear guidance and assistance.
- Trained 5 inexperienced direct reports in successfully qualifying Theater Anti-Submarine Warfare.
- Lead Communication Data Link Systems operator for a team of 3, ensuring network availability for over 65 missions.
- Enhanced mission readiness by training 17 personnel in Air Detection through supervision and collaboration.
- Command Assessment Team leader, overseeing equal opportunity status for 250 reservists by addressing service members concerns related to command policies and procedures.

PROJECTS

Trivia Forge

<https://trivia-forge.onrender.com/>

- Built a web-based trivia generator using the ChatGPT API, enabling users to create, modify, and save custom trivia games from personalized prompts.
- Engineered backend points using Flask with Python, managing CRUD operations for user data and trivia games, integrated with a Supabase hosted relational database.
- Configured Zustand for global state management, maintaining consistent and reactive state across multiple React components.
- Integrated Axios for frontend-backend communication, facilitating data exchange between user interface and backend services.
- Developed Flask blueprints to modularize backend routes, improving maintainability of server-side codebase.

Tarpaulin Course Management Tool

<https://a6-course-management-tool.uc.r.appspot.com/>

- Developed and deployed a complete RESTful API with 13 endpoints using Python, Flask, Google App Engine, and Datastore.
- Endpoints include user authentication with Auth0, course management, and student enrollment.
- Integrated Google Cloud Storage for user avatar management and ensured secure operations with JWT-based authorization.
- Used best practices for pagination, multiple conditions, and ordered results for data retrieval.

Employee Management System

github.com/demuthsa/EmployeeManagementSystem

- Developed an SQL database with a React frontend, streamlining hospital staffing and scheduling.
- Built a modular Node.js/Express backend and utilized Vite and Axios for CRUD operations.
- Collaborated to enhance the project with CASCADE operations, constraints, and day.js for form validation.
- Frontend using React and Vite as the build tool, featuring form validation, error handling, real-time updates.

ReviewMate REST API

github.com/demuthsa/ReviewMate-REST-API

- Designed and implemented a RESTful API with 11 endpoints for a business and review platform, supporting full CRUD operations and MySQL for data storage.
- Containerized the application using Docker and deployed using a virtual machine created with Google Compute Engine.
- Thoroughly tested the API using Postman collections and automated tests with Newman, validating API functionality.