ANDY JAMES

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EXPERIENCE

Software Developer   Jan 2023 - Present
Center for Applied Software and Systems   *Corvallis, OR*

- Developing a fullstack application, implementing RESTful HTTP API functionality in the ASP.NET C# backend and building an advanced React frontend with Redux to facilitate efficient academic planning and save substantial time/costs for OSU and its staff
- Modernized an application for ODOT utilizing a .NET microservice architecture, developed multiple backend services and a Vue.js frontend, which greatly increased data reliability, usability, and road safety across Oregon
- Implemented an intuitive frontend homescreen using Vue.js and Typescript, which added a customizable control feature to filter/display road data and streamlined custom layout capabilities which reduced critical errors in usage

Software Development Internship   Jun 2023 - Sep 2023
3D Systems Corporation   *San Diego, CA*

- Built a service performing critical safety procedures for the latest 3D printers by leveraging CORBA, C++, and Python to process, send, and consume API data enabling hardware connectivity/control and simulations for testing
- Discovered and solved a repetitive procedure requiring similar code in a series of processes by creating a Python script to automatically insert code in multiple files which greatly reduced development time and errors
- Collaborated within an Agile development environment, employing sprint methodologies, conducting weekly stand ups, code reviews, and actively participating in scrum meetings to coordinate timely project delivery

Computer Science Peer Tutoring   Oct 2022 - Jan 2023
OSU College of Engineering   *Corvallis, OR*

- Conducted 3 hour daily CS tutoring sessions for multiple classes, greatly increasing academic performance

EDUCATION

B.S. in Applied Computer Science, Oregon State University **GPA:** 3.98   June 2024
Relevant Coursework: Data Structures, Algorithms, Operating Systems, Cloud Development, Database Management, Discrete Mathematics, Software Engineering, Assembly, Digital Logic and Design, Parallel Programming

SKILLS

Programming Skills	C/C#/C++, Python, Java, HTML/CSS/Node, JavaScript, MySQL, Vue.js, Redux, Ag Grid
Software/Skills	Fullstack, Jira, Devops, Agile, Visual Studio, API, Git, Docker, GitHub, Microservice, Cypress

PROJECTS

Google Cloud Web Project:

- Designed a web application on Google Cloud following REST API specifications. Utilized Google Cloud's API and databases to perform CRUD operations, while including secure OAuth2 authentication for privacy/data protection
- Acquired skills in Google API integration, Flask framework, RESTful architecture, handling of HTTP status codes, authentication mechanisms, and Docker images/containers

C shell:

- Developed a C shell, enabling execution of Linux commands and implementing advanced functions including process control, $$ expansion, child/signal handling, in/output management, and fore/background task handling
- Gained extensive proficiency in C programming and deepened knowledge of operating systems

Portfolio:

- Website built with JavaScript/HTML/CSS to show my projects: https://web.engr.oregonstate.edu/~jameandy