**Jake Gresh**

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**SUMMARY**

Computer Science Senior, experienced in object-oriented programming and full-stack development. Pursuing full-time opportunities in the industry.

**EDUCATION**

**B.S. Computer Science** Expected May 2025

Arizona State University, Tempe, AZ 3.90 GPA

Relevant Courses: Data Structures & Algorithms, Assembly, Cybersec, Software Engineering, Databases, Project Management

**SKILLS**

**Programming Languages**: C/C++, C#, Java, Python

**Web Stack**: HTML, CSS, JavaScript, React.js

**Tools/Methods**: Git, GitHub, JSON, Google Cloud, Oracle Cloud, AWS, Unit Testing (JUnit), SQL, Agile/Scrum

**OS/Software:** Windows, MacOS, Linux/Unix, Microsoft Office, GDB, WordPress

**Certifications:** Advanced Accessibility for Web Developers (ASU, 2024)

**PROFESSIONAL EXPERIENCE**

**The Nixer, *Phoenix, AZ*: Web Developer** Mar 2023 - Present

* Leveraged company's existing systems and coordinated with new ownership to overhaul site that has since been visited over 10,000 times
* Transferred site to custom **WordPress** solution hosted on **Oracle Cloud** Infrastructure virtual machine, overhauled design in accordance with complete rebrand
* Implemented a company-wide calendar management system aligning with the .ics standard

**Freelance Work, *Phoenix, AZ*: Web Development & IT** Jun2023 - Present

* Transferred websites to **WordPress** on **Oracle Cloud** virtual machines, saving one business $1500+ annually
* Automated contact forms and integrated with automated email communications for nonprofit with 1,000+ volunteers
* Managed DNS records across GoDaddy and **AWS** services for multiple domains to ensure reliability of webpage redirects and 100% uptime of automatic email services
* Devised a solution to integrate online payment for products as one business expanded into retail locations

**PROJECTS**

**NASA Educational Web Game, *Class Project*** Fall 2024 - Spring 2025

* Collaborating with NASA on a physics-based **C#** Unity game that teaches students about NASA's Psyche mission
* Leading team collaboration on **GitHub**, combining 5 minigames into a cohesive final product available to the public
* Practicing **Agile** as **Scrum** Master with sprint planning, stand-ups, and retrospectives, delivered prototype on schedule

**Restaurant Database App, *Class Project*** Fall 2024

* Led development of **React.js** web app with restaurant data, users, reviews, and photos
* Wrote **JavaScript** to download data into **PostgreSQL** database from an external API
* Expanded upon project after submission, implementing my own public API for the backend and hosting the project
* Hosted the backend API and the frontend at [gresh.dev/db](http://gresh.dev/db) on an **Oracle Cloud** virtual machine running **Linux**

**Code Generator, *Class Project*** Spring 2024

* Developed an abstract syntax tree generator in **C++** for any program in a unique programming language
* Implemented multiple types of error checking to ultimately generate an executable representation for input programs

**LLM Helper Web App, *Class Project*** Spring 2024

* Designed a **C#** web app that retrieves and processes data from the web to be used in comparing LLM AI models
* Developed as a team to deploy the app to the web with both remote and local web services
* Included authorization of staff and member pages with accounts, **XML** files, and cookies