Jake Gresh

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SUMMARY

Computer Science Senior, experienced in the software engineering process. Pursuing full-time opportunities in the industry.

EDUCATION

B.S. Computer Science Expected May 2025
Arizona State University, Tempe, AZ 3.85 GPA
Relevant Courses: Data Structures & Algorithms, Assembly, Cybersec, Software Engineering, Databases, Project Management

SKILLS

Programming Languages: C/C++, C#, Python, Java
Web Stack: HTML, CSS, JavaScript
Tools/Methods: Git, GitHub, JSON, Google Cloud, OCI, AWS, Unit Testing (JUnit), SQL, UML, Agile/Scrum
OS/Software: Windows, MacOS, Linux/Unix, Microsoft Office, GDB

PROFESSIONAL EXPERIENCE

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

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

Various Companies, Phoenix & Anthem, AZ: Freelance Web Development & IT Jun 2023 - Present

- Transferred websites to WordPress on OCI VM, saving one eyecare business $1500+ annually
- Set up customer contact forms and integrated with automated email communications
- 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

RELEVANT PROJECTS

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

Linux Kernel Modules, *Class Project* Spring 2024

- Wrote C code to implement various operating system features, consulting Linux documentation
- Handled processes' requests to allocate and free memory using multi-level page tables
- Calculated simultaneous multithreaded runtime of all processes belonging to a given user
- Implemented user program access for virtual storage device using the block abstraction, supporting read and write operations of different block sizes and offsets

Building a Web Server, *Class Project* Fall 2023

- Programmed x86 assembly on Linux to implement a web server from scratch
- Wrote code to accept TCP/IP network connections
- Used multi-processing to dynamically respond to multiple HTTP GET and POST requests