**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 3.90 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** Jun2023 - 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