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AUSTIN J. PENNARTZ

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EDUCATION

University of Texas at San Antonio   **Fall 2018 – May 2023**

- B.S. in Computer Science, May 2023.
- Double Concentrations in Software Engineering and Cyber Security
- Cumulative GPA: 3.89 | In-major GPA: 3.98

CERTIFICATIONS

- CompTIA: Security+

TECHNICAL EXPERIENCE

Web Application Development

LAMP framework development:

- Created a hotel reservation management application hosted on the internet by provisioning cloud resources (AWS).
- Performed DevOps in Linux, created an Apache web server, created a database using MySQL through phpMyAdmin with realistic account data, created front-end webpages using HTML, CSS, Bootstrap, JS, and used PHP for backend database and server communication.
- Backend processes were optimized by reducing algorithms' big O orders, adjusting SQL queries, and implementing normalization on the database.
- Utilized Adobe Dreamweaver as an IDE to develop and push code to the server.

Unity Development

Game Development:

- Lead a team that developed multiple fully functioning games using unity with C#.
- Each game was coded using OOP design principles such as 'SIMPLE' to maintain readability and efficiency.
- Used the Unity code collaboration tool to manage contributions and practice version control.
- Went through many cycles of testing, integration, and bug fixes of other team members' code to ensure the final build was sufficient.

Microsoft HoloLens Development:

- Created a Unity cooking application for Microsoft HoloLens.
- Written in C# with the assistance from the official HoloLens SDK and documentation.

Data Structures

- Wrote programs in C and Java that utilized complex data structures such as stacks, queues, heaps, hashes, graphs, linked lists, and binary search trees.
- Programs allocated and properly deallocated memory to avoid memory leaks.

Linux

- Experience using the CLI to pipe, build, compile, and manage files/directories.
- Scripting using Bash and Python
- Knowledge of security-oriented tools to capture and analyze network traffic

Languages and Technologies

- Java, C, C#, HTML, CSS, JavaScript, PHP, SQL, Bash, Python
- Linux OS; Windows OS; phpMyAdmin; AWS (EC2); WordPress; Bootstrap; Regex; Git; GitHub; John the Ripper; Kismet; Aircrack-ng; Visual Studio; Eclipse; Dreamweaver; Microsoft Office;