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William Hahn

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Education

Purdue University ***Expected 2022***
GPA: 3.38

Bachelor of Science in Computer Science
Bachelor of Science in Mathematics
2019 Purdue Summer in Sydney Study Abroad
Spring 2019 Semester Honors

Technical Skills (0 Learning – 10 Mastery)

Languages:

- C (9)
- Bash (9)
- Markdown (7)
- FLEX & Bison (4)
- C++ (9)
- Java (8)
- Python (6)
- MatLab (3)
- C# (9)
- HTML & CSS (7)
- LaTeX (5)
- GLSL (2)

Technologies:

- VIM (10)
- Windows (9)
- Atom IDE (6)
- Bootstrap (4)
- Visual Studio (9)
- CLion (8)
- DirectX 12 (5)
- CUDA (3)
- Linux/Unix (9)
- Eclipse (7)
- ASP.NET (5)
- OpenCV (2)

Work Experience

RDG: Assistant Technical Lead – C# & ASP.NET ~ 15 hr/ week ***January 2019 – Present***

- Solved over 60 different issues on the Risque website
- Designed new implementation for caching time inefficient information
- Gained stronger skills in interpersonal relations

Projects

Shell: Personal Project/Class Project – C/C++ ***October 2019 – Present***

- Developed a rudimentary shell using C, Lex, and YACC
- Updated shell using C++, FLEX, and Bison to automate workflow

Personal Website: Personal Project – HTML & CSS, Javascript ***August 2018 – Present***

- Gained an understanding of HTML & CSS
- Purchased and maintained a domain through Google Domains

Neural Network: Personal Project/Class Project – C/C++ ***January – May 2018***

- Designed and implemented polymorphic neural network program
- Learned basic CUDA library functions for hardware acceleration on Nvidia GPU

3D-Cube map renderer: Personal Project/Class Project – C/C++ ***August – December 2017***

- Designed simple workflow to view 3D-cubes in First person
- Self-taught DirectX 12 API for rendering cubes
- Developed stronger time-management skills

Relevant Coursework

Current:

- Analysis of Algorithms
- Intro to Cryptography
- Differential Equations

Past:

- Programming in C
- Data Structures and Algorithms
- Multivariable Calculus
- Foundations of Computer Science
- Systems Programming
- Linear Algebra
- Computer Architecture
- Numerical Methods
- Statistics

Clubs and Activities

B01lers	Member	***September 2019 – Present***
Competitive Programming Union	Member	***September 2019 – Present***
AITP	Member	***September 2018 – December 2018***