

Jake “JJ” Bowen

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Summary

Experienced and hardworking Master’s graduate in Computer Science with research in GPU programming. Adept coder, proficient in many programming languages and software systems, with significant experience working on a professional team. Curious and competent problem solver with great communication skills.

Education

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| Master of Science | 9/2022 |
| University of California, Santa Cruz GPA 3.82 Computer Science and Engineering | |
| Bachelor of Science | 6/2021 |
| University of California, Santa Cruz Computer Science | |
| Bachelor of Art | 6/2021 |
| University of California, Santa Cruz Economics | |

Work Experience

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| Information Security Analyst University of California, Santa Cruz ITS | 12/2021-07/2022 |
| <ul style="list-style-type: none">• Worked for ITS Core technology- Infrastructure Security Team, analyzing security vulnerabilities and investigating/responding to incidents at a major research university.• Worked with open-source projects, vendor APIs, and code with limited documentation and/or no support.• The focus was on enhancement of security tools, alerts, and data analysis. | |
| Software Engineering Intern Nuix North America, Inc | 10/2020-7/2021 |
| <ul style="list-style-type: none">• JavaFX application to test native C++ API• Developed stand-alone application using JavaFX to make and view file safes.• Created UI layouts using Scene Builder, developed all associated Controller classes.• Developed Interface classes to access the native C++ DLL using JNA.• Used the Java Document class to read and write test configuration files in XML. | |

Key Skills

- Languages: Java, JavaScript, JavaFX, C, C++, Python, HTML, XML, React, SQL, Node.js, Perl, WebGL, Express, JSX, CUDA, Scheme, Processing, OCaml, Smalltalk, Phaser, and MIPS, Dafny.
- Software: Microsoft Office, Word, Excel, PowerPoint, TurboTax, GitHub, Eclipse, Scene Builder, Notepad++, Powershell, Google Suite, PuTTY.
- Operating Systems: Windows, Unix/Linux
- AI
- Works well as part of a team or individually.
- Experience working with GPU programming using CUDA
- Curious and solutions oriented problem solver

Volunteer Experience

Teen Volunteer (TWG) | Oakland Zoo - Oakland, CA | 06/2011 - 09/2017

- Worked with zoo visitors - including families and children - educating them about zoo animals and their habits, natural environments, and conservation.
- Multiple Presidential Volunteer Service Awards for hundreds of hours of volunteer work.

Research

GPU Programming | University of California, Santa Cruz | 1/2022 – 9/2022

- Researched running graph algorithms, particularly PageRank and Single Source Shortest Path, on CPU, GPU and heterogenous kernels, as well as embedded devices.