Calvin Gagliano

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C++, C#, Python

Experience

Microsoft Corporation - Software Engineer (Visual Studio Debugger) *July 2020 - Present, Redmond, WA*

- Developed the full end-to-end dependent breakpoint experience for Visual Studio 2022 which received nearly 500 likes on the VS Debugger twitter
- Led the development of temporary breakpoints for Visual Studio 2022 which involved refactoring the debugger's glyph APIs and designing a better algorithm for persisting breakpoints
- Collaborated with .NET teams to design and consume new APIs to support debugging standalone .exe files and data breakpoints in .NET 5+
- Created a method for determining if memory is owned purely by a debugger-generated TypeProxy managed object or by the debuggee process which saved the debugger from displaying an incorrect error message 100+ times per month

Association for Computing Machinery - Chapter President (Oregon State University) *May 2019 - June 2020, Corvallis, OR*

- Grew membership by 300% by building leadership team, gaining official recognition, and creating chapter vision
- Collaborated with companies such as Fast Enterprises, Lucid Software, and MPulse for hiring events and technical discussions
- Hosted practice sessions for and competed in ACM ICPC, Google's Hash Code, and local competitions to build a competitive programming community on Oregon State's campus

Oregon State University - Teaching Assistant (Undergrad CS) *September 2018 - March 2020, Corvallis, OR*

- Taught universal coding concepts, basic data structures, and object-oriented programming using C and C++ in Oregon State University's year-long introductory CS 16X course series
- Led and delivered weekly live-coding demos on topics such as pointers and recursion to lab sessions enrolling 20+ students
- Guided students through Oregon State's virtual Algorithms course (CS 325) via online office hours and grading

Microsoft Corporation - Software Engineer Intern (Azure CodeSign) *June 2019 - September 2019, Redmond, WA*

- Developed a Docker image to componentize sign tools and custom key storage provider to enable portability
- Used Powershell, C, and .NET to create, schedule, and deploy sign jobs between container instances, which delivered proof of concept for Azure signing service that currently signs $\tilde{3}$ billion files monthly

Kaiser Permanente - Software Engineer Intern (Claims Processing) *June 2018 - September 2018, Portland, OR*

- Worked on a test automation web application that drove developer efficiency up 50% during testing phases
- Developed major full stack features with Angular.js such as bookmarking test cases and a 1-click-run button
- Created REST API routes using Node.js and Express.js to deliver results from thousands of tests every day

Projects

cp_gen (C++, Makefile) *github.com/calgagi/cp_gen*

- Command line interface-based template generator for creating competitive programming templates on the fly, with an emphasis on ability to add, test, and use new libraries easily
- Implemented automated building and testing using Makefile, YAML, and GitHub Actions

Education

Oregon State University - Computer Science, B.S. (3.92/4.00 GPA) *September 2016 - June 2020, Corvallis, OR*

- Majored with a Systems focus and minored in Mathematics. Volunteered with the EECS Graduation Celebration Board.
- Relevant coursework: Advanced Algorithms, Graph Theory, Discrete Mathematics, Abstract Algebra