justingallagher

computer scientist & software engineer

contact

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languages

 $\star C++$ * C#

* C

* Java Javascript **Typescript**

Python

technologies

Windows SDK Android SDK Node.js **ASP.NET** OpenGL

applications

LaTeX Vim Visual Studio Linux Windows

interests

App development **Operating Systems** Firmware development Computer Graphics Robotics

experience

Microsoft Corporation, Software Engineer II

- Implemented visual style and layout changes to Microsoft Edge's tab bar during the browser's transition to Chromium.
- Formed a team to promote better code quality and faster merges with Chromium, reducing the time for critical security fixes to reach Edge.
- Led the org's collaboration with Google in the upstream codebase, driving new features and fixes for both Chrome and Edge.
- As the telemetry expert for our team, identified and resolved gaps in our instrumentation for the tab bar and browser frame.
- Rolled out 43 new display languages for Edge on Windows and MacOS, as well as instrumentation and dashboards for global usage data.
- Delivered a crucial servicing update for Microsoft Edge, working with program manager, writing, and legal teams to protect user privacy.

Microsoft Corporation, Software Engineer

- Implemented top user requests in Microsoft Edge's downloads interface such as "Save As" and download speed data.
- Drove the creation of new APIs to control window and tab behavior in Windows, alongside partner teams in shell and web platform.
- Worked with a third-party company to design and develop new web APIs through a Typescript browser extension.

Microsoft Corporation, Software Engineer Intern

- Designed and implemented an analytics tool for the Windows team to hierarchically search XAML file structure using C# and SQL.

Carnegie Mellon Biorobotics Lab, Student Researcher

- Led a team of 3 students in planning and implementing firmware for JumpingBot, a robot which can self-stabilize in freefall.
- Designed and programmed an Android application which allows realtime sensor data to be accessed in MATLAB and ROS.

education

Carnegie Mellon University

Bachelor of Science in Computer Science & Business Admin. Minor **GPA**: 3.63/4.00 **Awards:** University Honors, 3-time Dean's List honoree 2018 - now Redmond, WA

2016 - 2018

Redmond, WA

2015 - 2015Redmond, WA

2013 - 2015

Pittsburgh, PA

2013 - 2016Pittsburgh, PA