Casey Irvine

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SUMMARY

Software Engineer with 6+ years of experience at industry leaders. Proficient in C, C++ and Python. Passionate about learning, developer productivity, low-level programming, AI and Machine Learning, and developing software that improves quality of life.

SKILLS

- **C++**
- **Modern C++**
- C
- **Python**
- C#
- JavaScript
- **COM**
- **Windows**
- Linux
- Android
- iOS
- SQL
- CMake
- **WinDBG**
- PowerShell
- Visual Studio
- Azure Dev Ops
- Scrum
- **WinRT**

EXPERIENCE

Microsoft   **Redmond, WA**
Software Engineer   *Aug 2011 – Aug 2014, Mar 2015 – Present*
- C++, COM and WinRT development of core operating system and browser components.
- Windows, Windows Phone, Android, and iOS app development.
- Received Windows Phone Excellence in Execution Award.

Amazon   **Seattle, WA**
Software Engineer   *Aug 2014 – Feb 2015*
- Developed Python tools for testing service reliability and performance during server outages.
- Worked on data ingestion and aggregation pipeline.

EDUCATION

University of Arizona   **Tucson, AZ**
BS in Mathematics and Computer Science   *Aug 2006 - May 2011*
- Summa Cum Laude (GPA: 3.94/4.0).
- Undergraduate TA in Math and Computer Science.
- Undegraduate Research Team Lead.
  - Computation Photonics with Genetic Algorithm.
  - https://www.math.arizona.edu/~brio/VIGRE/THzEmission.html

VOLUNTEERING

Bellevue College   **Bellevue, WA**
Mentor and Guest Speaker   *Aug 2017 - Present*
- Mentored students for summer game design program.
- Mentored students for undergraduate research in Reinforcement Learning.
- STEM Advisory Board member.
- 2019 Global Game Jam judge.