scott.todd0@gmail.com

# Scott Todd

## SKILLS

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|---|---|
| **Languages** | C**,** C++, Java, JavaScript, Python, C#, Objective-C |
| **Platforms** | Linux, Windows, macOS, Web, Android, iOS |
| **Technologies** | MLIR, Vulkan, OpenGL, WebGPU, WebGL, Unity3D |

## EXPERIENCE

**AMD**          *Member of Technical Staff*          Seattle, WA          2024-Present
  *IREE* - A retargetable MLIR-based machine learning compiler and runtime toolkit

**Google**          Senior *Software Engineer*          Seattle, WA          2015-2024
  *IREE* - A retargetable MLIR-based machine learning compiler and runtime toolkit
- Developer experience - documentation, samples, profiling tools, and infrastructure
- Advanced integrations - Vulkan, WebGPU, bare metal

  *Google Clips* - A hands-free camera for helping people record genuine moments of their lives
- Developed cross platform, interactive video streaming and rendering for development tools and production apps
- Devised realtime techniques for correcting wide angle camera lens distortion and stabilizing handheld video

**Google**          *Software Engineering Intern*          Seattle, WA          Summer 2014
  *Web Tracing Framework* - Open source tool for profiling and analysis of complex web apps
- Added interactive WebGL analysis tools augmenting recording and playback features

**MITRE**          *Software Engineering Intern*          Bedford, MA          Summer 2011-2013
  *Non-profit research and development for government agencies*
- Built automated analysis tools for a computer vision system
- Deployed interactive social media visualizations for exploring network activity

**Zen Entertainment**          *Intern*          Framingham, MA          Summer 2010
  *Online poker vendor*
- Maintained internal testing environments, automated new test procedures

## EDUCATION

**Rensselaer Polytechnic Institute**  GPA: 4.00          Troy, NY          Graduated May 2015
  Bachelor of Science in Computer Science
  Bachelor of Science in Games and Simulation Arts and Sciences

## PROJECTS

My project work can be viewed at scotttodd.github.io