

Dilraj Devgun

dilrajsinghdevgun@gmail.com | (425) 279 3444

github: github.com/Dilraj-Singh-Devgun | portfolio: thejarlid.github.io

EXPERIENCE

Software Engineer (HoloLens Firmware and Drivers Team)

Microsoft | Redmond, WA | August 2019 - Present

- Developed, integrated, and tested drivers, firmware and other software related to sensors for the HoloLens 2 and government IVAS project
- Enabled OS level features and developed the sensor stack from the hardware level up to higher level APIs so consumers such as the OS, Calibration and Vision teams can take advantage of available hardware and sensor input
- Assisted Microsoft Research with various projects including deepfake detection

Software Engineering Intern

Microsoft | Redmond, WA | Summer 2018

- Interned on the Universal Store Team under the Cloud + AI division developing a VSTS extension used to model service architecture
- Developed an Azure hosted application that aggregated data from external endpoints into a central location for users using .NET Core, Angular, and C#.
- Followed modern cloud service practices to integrate the extension across multiple layers and other Microsoft services

CSE 451 and 143 Teaching Assistant

University of Washington CSE | Seattle, WA | 2017- 2019

- Taught college students fundamental concepts of Data Structures and abstraction in Java as well as the Operating Systems class (CSE 451) at UW

Operating System and Hypervisor Research

University of Washington CSE | Seattle, WA | 2017 - 2018

- Worked alongside Professor Tom Anderson to extend an Operating System into a new lightweight hypervisor that provides greater flexibility to both applications and guest OS
- Designed and implemented a user-level thread system that interacts with the kernel via donated physical processors and timer events that reschedules at user-level, unlike a traditional model

Co-Founder + iOS Developer

Clockwork Development, LLC | Bellevue, WA | 2014 - 2016

- While in high school I developed an app which Apple featured on the App Store as Best New App in Germany, Sweden, and Austria

EDUCATION

University of Washington

Seattle

Computer Science | 3.75 | 2015 - 2019

AWARDS

WA State Honors

AP Scholar Award with Distinction

Best New App by Apple (Germany, Sweden, Austria)

Annual Dean's List ('15 - '16, '17 - '18, '18 - '19)

SKILLS

Technical Skills

iOS Development

Swift

Objective-C

Java

C

C++

C#

SQL (Azure, AWS)

HTML / CSS / Typescript

Python

MVC Paradigm

UI/UX Design

Angular

Functional Programming

.NET ASP

Machine Learning

Data Science

Interpersonal Skills

French

Project Management

Teaching