

# Dilraj Devgun

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github: [github.com/Dilraj-Singh-Devgun](https://github.com/Dilraj-Singh-Devgun) | portfolio: [dilraj-singh-devgun.github.io](https://dilraj-singh-devgun.github.io)

## EXPERIENCE

### Software Engineer (HoloLens Firmware and Drivers Team)

Microsoft | Redmond, WA | Summer 2018 - Present

- Developed, integrated, and tested drivers, firmware and other software related to sensors for the HoloLens 2 in the Cognition Org.
- Enabled OS level features to take advantage of available hardware and lower level systems in the HoloLens
- Assisted Microsoft Research with deepfake detection efforts

### 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 over 100 college students fundamental concepts of Data Structures and abstraction in Java as well as the Operating Systems class at UW

### Operating System and Hypervisor Research

University of Washington | 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 + Lead Developer

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

- Overlooked and handled all development of the application using Swift and Objective-C
- Apple featured our app on the App Store as Best New App in Germany, Sweden, and Austria

## EDUCATION

### University of Washington

Seattle

Computer Science | 3.73 | 2015 - 2019

## AWARDS

WA State Honors

AP Scholar Award with Distinction

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

Annual Dean's List 2015 - 2016

Microsoft Office Master Certification

## 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

Team Management Project Management