Shrey Khosla

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Sept - Dec 2017

Jan - Dec 2017

Summary

I am 4th Year Software Engineering student at the University of Waterloo! At Microsoft, I worked on Graphics, Computer Vision, and Mixed Reality projects. Previously, I was developing Android apps at multiple startups and have experience in various other fields in tech: Game Development, Web Development, and Human Computer Interaction research to name a few. I enjoy affecting every part of the product development process and have experience in leading and collaborating in iterative design and prototyping throughout all of my internships.

Projects



Akoko

Software Engineering Capstone Project

https://akoko.co

Making it easier to create and schedule events. Web-App Built with NodeJS, React, Javascript, CSS, Docker, and other latest technologies with a 5-man team, where my major focus was on frontend work.



Pholume

Software Architecture (SE 464) Project

https://github.com/ShreyK/Pholume-Android

Built the entire **Android** App.
A new **Social Network** for artists to create and share an **immersive photographic** experience by capturing a **photo** accompanied with a short **audio** recording to save an experience like never before.



Orbit

G.I. Jam (Game Hackathon) | University of Waterloo

https://github.com/dvdfu/orbit

Local Multiplayer Space based Game made in Lua in 48 hours.

Awarded the **Best Overall Game** prize!

Experience



Microsoft

Software Engineering Intern | BigPark Studio, Vancouver

Mixed Reality Viewer

Joined the team post-launch to be a part of the Creative design process to **research**, **analyze**, **prototype** and **experiment** on new features for the **3DFE ecosystem**.

Brought forward ideas to help reduce the app size from 100MB to 27 MB and automated a size graph export on each build for analysis.

Setup the A/B experimentation infrastructure for the app and maintained it with refactors and bug fixes.



Microsoft

Software Engineering Intern | BigPark Studio, Vancouver

Project Durban - Core

Built a 3D Asset Importer DLL to allow transcoding and transmission of 3D mesh data through the projects C++, CX & C# interop layers and finally render in our Engine for a HoloLens project.

Canvas 3D - Transcoders & Native Engine

Transitioned to a foreign project and codebase to help with Bug Fixes and Code Refactoring.

Performed Data Analysis on 10,000+ 3D models from Remix3D using multi-threaded Powershell scripts calling internal C++ tools.



theScore Inc.

Android Engineering Intern | Toronto, CA

May - Aug 2016

eSports Android App

Refactored major parts of the app to make it more lightweight, effecient and userfriendly, working closely with Design and QA to ensure any new features and updates were foolproof.

Added a Spoiler Mode, Dynamic Coachmarks, Localization support into the app.



KnowRoaming

Android Engineering Intern | Toronto, CA

Sept - Dec 2015

Jan - May 2015

KnowRoaming Android App

Helped redesign and rebuild the entire Android App.

Added backend support in Java for SMS Verification and Account Management.

Education & Awards



University of Waterloo

Waterloo, CA

2013 - 2018 Software Engineering w/ Co-Op

2013 Presidents Entrance Scholarship 2013 Engineering International Student Scholarship



International School of Arts & Sciences

Dubai, U.A.F.

2013 High School Diploma

Graduated Top of the class (12th grade)



Indian Hill High School

Cincinnati, Ohio, U.S.A

2010 - 2012 High School (10th, 11th grade)
2012 Mock Trials Regional - Outstanding Attorney Award

LKEN

Uken Games

QA Analyst Intern | Toronto, CA

Project Silver

Helped iterate on early game design from brainstorming to core feature generation to a full prototype.

 $Pair\ programming\ to\ develop\ the\ prototype\ using\ \textbf{\textit{JavaScript}}\ \textbf{\textit{ES6}}\ (Frontend)\ and\ \textbf{\textit{Ruby}}\ on\ \textbf{\textit{Rails}}\ (Backend)\ .$

QA

Testing 7 HTML5 based games on Android, iOS, Blackberry, Amazon and Windows devices on a daily basis.



University of Waterloo

Research Development Assistant | Waterloo

May - Aug 2014

Human Computer Interaction

Built an application to help in the of testing a **PhD thesis** in "**Large Scale displays in Public Areas**" using a **Kinect** device with **Processing** (w/ **OpenGL** interops) to sense and react to 3D environment data.

Project Ormis

Helped setup and run experiments for a multi-device military simulation software

Games Institute Jam | Gaming Hackathon

Taught Programming 101 for 2 recurrent terms, where I built a FlappyBird clone in Processing live on stage.