

Shrey Khosla



Summary

am a Software Engineer('18) from the University of Waterloo! I currently work at Microsoft, Vancouver - BigPark Studios. I have had internships on Graphics, Computer Vision, and Mixed Reality projects at Microsoft and was also engineering Android apps at multiple startups and various other fields in tech: Game Development, Web Development, and Human Computer Interaction Research. Throughout all of my internships I have led and/or collaborated in iterative design and prototyping phases.

Projects



LettuceMeet

Software Engineering Capstone Project

https://lettucemeet.com

Making it easy to schedule group meetings and events. Web-App Built with NodeJS, React, Javascript, SASS, Docker, NGINX, PostgresSQL, with a 5-man team, where my major focus was on frontend work.



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

Awarded the **Best Overall Game** prize!

Financial Market Predictor

Computational Intelligence (ECE 457B) Neural Network Project

Built 2 networks - Feedforward and LSTM (RNN) Networks to predict cypto currency financial markets

Education & Awards



University of Waterloo Waterloo, CA

2013 - 2018 Software Engineering w/ Honors & Co-Op 2013 Presidents Entrance Scholarship and Engineering International Student Scholarship



International School of Arts & Sciences Dubai, U.A.E

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

Experience



Microsoft

Software Engineer | Vancouver

BigPark Studio



Microsoft

Software Engineering Intern I Vancouver, CA

Mixed Reality Viewer | BigPark Studio

- 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 | Vancouver, CA

Jan - May 2017

July 2018 - present

Sept - Dec 2017

Project Durban - Core | BigPark Studio

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 | BigPark Studio

- 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

KnowRoaming Android App

Helped **redesign** and **rebuild** the entire Android App. Added backend support in **Java** for **SMS Verification** and **Account Management**.

Uken Games

QA Analyst Intern | Toronto, CA

Jan - May 2015

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 JavaScript ES6 (Frontend) and Ruby on Rails (Backend).

. 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.

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.