

DAEKUN KIM

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Work Experience

JUNIOR DEVELOPER

Virtro Entertainment Inc., Jul 2018 - Aug 2018

- Ported and optimized *The Station™* (Sci-Fi FPS Indie Game) into **PlayStation VR, Oculus Rift and HTC Vive** under **Agile** development process using **Unity**.
- Focused on baking real-time lights into statics ones, producing over **200% increase** in performance (FPS count).
- Developed Slack-integrated chatbot to automate the manual payroll system and to keep track of team's punch-in's and punch-out's using **Node.js** and **MySQL**.
- Designed and implemented **REST API** for Slack integration of the chatbot.

SOFTWARE DEVELOPER, QUALITY ASSURANCE

HeadCheck Health, Aug 2017

- Led the development of the athlete registration automation software using **Java** which **reduced the redundancy by over 99%** for a prospective concussion-diagnostics software startup.
- Worked with the QA team to implement **JUnit** test cases for iOS, Android and web using **Java** and **Selenium WebDriver**.

Skills

BACKEND

3D GRAPHICS & GAME DEV

WEB

Linux, Unix, Node.js, MySQL, Java, Python, Tensorflow
C++, Unity, C#, OpenGL, Shader
Selenium, REST API, jQuery, HTML/CSS/JS, PHP

Projects

WIZARD VR CHESS

Hack the North, Sep 2018 - Dec 2018

- Recreated "Wizard Chess" from the *Harry Potter* series in VR using **Unity** and **C#**.
- Utilized **IBM Watson's speech-to-text technology** for giving orders to the chess pieces.
- Awarded **Winner/Finalist of Hack the North 2018**.

REACTOR ENGINE

Personal Project, Sep 2016 - Mar 2017

- Developed a game engine for Mac OS X that utilizes **OpenGL** to render 3D models with a **scripting framework** built with **C++**.
- Implemented **entity-component-system framework** as the design structure.

POGO UNPLUGGED

SE 101 Group Project, Sep 2019 - Dec 2019

- Developed a self-driving car that automatically plays Pokémon Go and collects items in PokéStops around the University of Waterloo campus using **Node.js** and **Python**.
- Implemented basic autonomous driving; used **Socket.io** to create a socket connection between **AWS** server and **Raspberry Pi**
- Mapped out the school campus into nodes with straight paths in between.

Education

SOFTWARE ENGINEERING, CO-OP

University of Waterloo, 2019-2024 (Expected)

- 1st Term Average: 94% (4.0 GPA)