

Software Developer

DAEKUN KIM

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Education

SOFTWARE ENGINEERING, CO-OP

University of Waterloo, 2019-2024

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

Skills

Languages

C, C++, Java, Node.JS, PHP, SQL, C#, Swift, Python, HTML, CSS, JavaScript

Frameworks

OpenGL, Unity, REST API, Selenium WebDriver, JUnit, jQuery, MySQL

Work Experience

JUNIOR DEVELOPER

Virtro Entertainment Inc., Jul - Aug 2018

- Ported and optimized *The Station™* (Sci-Fi FPS Indie Game) into **PlayStation VR, Oculus Rift and HTC Vive** mainly focusing on lighting optimization.
- Developed **Virtro Attendance** (Slack-integrated application) to **automate the manual payroll system** and to keep track of team's attendance and leaves. Implemented **RESTful API** for communication with Slack server.

SOFTWARE DEVELOPER, QUALITY ASSURANCE

HeadCheck Health, Aug 2017

- Led the development of an automated customer registration software which **drastically reduced the redundancy (from taking days to ~10 min.)** in the registration process of new teams and athletes for a prospective concussion-diagnostics software startup.
- Worked with the QA team to **create and implement JUnit test cases** for iOS, Android and web using Java and Selenium WebDriver

Projects

VR WIZARD CHESS ([LINK](#))

Hack the North, Sep - Dec 2018

- Recreated "Wizard Chess" from the *Harry Potter* series in VR using **Unity**.
- 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 ([LINK](#))

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** to structure the designing of game objects.

KINDLERS NETWORK ([LINK](#))

REMSS Kindlers Society, Jul 2016 - Jun 2017

- Created a web application using PHP and MySQL for the **organization members (over 100)** to sign up and check the volunteer hours, and for executive members to **manage the volunteer events**.