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.

LUMOS (LINK) — Hack the North, Sep 2019

- Developed a VR **magical dueling simulator** using Unity.
- Integrated **Microsoft Azure NLP SDK** to train a basic **deep learning** model and recognize the magic spells spoken by the player.