Sean Kim
COMPUTER ENGINEER

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Skills

Languages	Python • C/C++ • JavaScript • Java • HTML/CSS • MATLAB • SQL • VHDL
Tools/Frameworks	React.js, Express.js, Node.js, MongoDB

Education

University of Waterloo　　　　　　　　　　　　　　　　　　　　*Waterloo, Canada*
B.A.Sc. COMPUTER ENGINEERING　　　　　　　　　　　　　　　　　　　*Exp. Apr 2022*

Experience

Republic of Korea Army　　　　　　　　　　*U.S. Army Garrison Humphreys, Korea*
INTELLIGENCE ANALYST　　　　　　　　　　　　　　　　　　　　*Mar 2018 - Nov 2019*
- Increased the number of daily processed units by 30% by extracting useful information using Python.
- Developed a program in Python to automate documentations required for reporting through chain of commands during charge of quarters.
- Developed a logic statement simplifier to improve query response time using Python.

YuJa, Inc.　　　　　　　　　　　　　　　　　　　　　　　*Toronto, Canada*
SOFTWARE DEVELOPER　　　　　　　　　　　　　　　　　　　　*Jan 2017 - Apr 2017*
- Developed new features within the media selector used by thousands of active users with React.js.
- Decreased response time by reimplementing search bar algorithm.
- Reduced load on server by redirecting file upload directly to Amazon S3.
- Designed and implemented folder structure to allow users to store and search through folders efficiently.

ICF Next　　　　　　　　　　　　　　　　　　　　　　　　*Toronto, Canada*
JUNIOR DEVELOPER　　　　　　　　　　　　　　　　　　　　　*May 2016 - Aug 2016*
- Documented REST API endpoints using Swagger UI for clients to test their product.
- Wrote SQL scripts to create new roles and permissions to existing user database.
- Collaborated with UX designers to implement new features throughout the site.

Projects

Goondae
- Built a full-stack webapp with 5,000+ monthly visits using React.js and Express.js for Korean soldiers.
- Implemented a program in Python using RegEx to extract necessary data from xlsx files with 10,000+ entries in JSON format.

Last In First Out
- Built to provide waitlists and allow users to join queues remotely for popular restaurants.
- Won $2,000 as a team of 5 members for being in the Top 10 among hundreds of teams from Military Startup Challenge supported by the Government of South Korea.

aRive | EngHack
- Built a Java Spring project in a team of 4 using Google's Geocoding API and TTC Real-Time API.
- Implemented an algorithm that calculates the distance between the user's current location and the final destination to send a text message to the user using Twilio at the appropriate time.

Falling Through The Walls
- Developed iOS game on Xcode using Swift SpriteKit.
- Used physics engine from SpriteKit to detect collisions of the character and the walls.