Eunho (Chris) Jung

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EDUCATION

Bachelor's in Computer Science, **University of British Columbia (UBC) - Vancouver**   Nov 2024(Expected)
- **CGPA: 3.9 / 4.0**
- *Relevant Courses***:** Basic Algorithms and Data Structure, Software Construction, Computer Hardware and Operating Systems, Introduction to Relational Databases, Introduction to Computer Networking, Applied Machine Learning, Introduction to Data Science

Bachelor's in Engineering (Mechanical), Kyungpook National University (KNU) - South Korea   Feb 2019

PROFESSIONAL EXPERIENCE

Software Development Engineer Intern, Amazon (Alexa Skills Kit) - Canada   May 2023 – July 2023
- Developed an infrastructure for service that recommends contextually relevant contents for Alexa device users
- Used **Java** and **AWS CDK** to develop an **API** that receives user contexts from device and dynamically provides recommended contents with interactive UI
- Provided team with a new way to recommend contents which is expected to increase retention of 2MM+ users

Software Developer Co-op, Lucid Vision Labs (Software) - Canada   Sep 2022 – May 2023
Machine Vision Plugin Development
- Developed plugins for machine vision software that improved the quality and utility of the camera stream in **C++**
- Applied **image processing** algorithms such as reflection correction and shading correction utilizing **OpenCV** library
- Implemented real-time status updates and logging, enabling users to easily monitor the functionality of the plugin
Testing for Machine Vision Software
- Developed test suites for various feature modules such as video stream, file saving, and hotkey using **Google Test**
- Created testing tools that efficiently simulate desired testing situations while covering the core logic of the system
- Caught errors, identified edge cases, and fixed the bugs leading to improvements in software performance

Mechanical Design Engineer, SEMES (Photo Spinner) – South Korea   Jan 2019 – Jun 2020
- Designed robot hardware systems of semiconductor manufacturing equipment using 3D and 2D CAD tools
- Solved complex engineering problems (Stress analysis, life cycle analysis and etc.) to meet customers' needs

SKILLS

Programming: Python, JavaScript, TypeScript, Java, C/C++, HTML/CSS,
Frameworks/Tools: AWS CDK, React, NodeJS, Firebase, Express, MongoDB, Webpack, Babel, Selenium, JUnit
Version Control System: Git/Github

PROJECTS

ETUBE | Solo Project ([Github Repo](https://github.com))   Jan – May 2022
- An application where users can create accounts and post videos (Youtube clone)
- Implemented CRUD (video and user) and search feature using database based on MVC structure
- Developed a routing system handing undesirable approaches using browser cookie and middleware
- Other features: login using passwords using bcrypt hashing, social authentication using Github OAuth2.0, and etc.
  Skills: JavaScript, NodeJS, MongoDB, Express, Babel, Webpack, HTML, CSS

ECO BUS | Team of 4 | Role: Lead Programmer and Product Owner ([Github Repo](https://github.com))   May 2021
- A web app to incentivize users to take public transportation by searching routes with CO2 emissions they save
- The app features Google map, route search, auto-completed locations, user & history tracking, and social login
- Went through automated tests using Selenium IDE based on various user experiences possible
  Skills: JavaScript, ReactJS, MongoDB, Firebase, Google Maps API, Selenium IDE, HTML and CSS