





Juheon (John) Chu

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 <https://github.com/JuheonChu>

EDUCATION

Dickinson College

Bachelor of Science in **Computer Science and Mathematics**

Carlisle, PA, USA

Expected February 2024

Cumulative GPA: 3.79/4.0; **Major GPA (Computer Science):** 3.95/4.00

Relevant Courses: Linear Algebra, Computability/Complexity, Database Systems, Data Mining, Large-Scale Open Source Software Development, Analysis of Algorithms, Operating Systems, Computer Organization and Architecture

Honors & Awards

- [The Forrest E. Craver Memorial Prize in Mathematics](#): Awarded to a junior student exceling in mathematics

SKILLS

Programming Languages:

Java, C/C++, Python, JavaScript, SQL, HTML5, CSS, CUDA

Software & Machine Learning:

Natural Language Processing, Transformers, Neural Networks, AWS, Git/Github, Deep Learning Libraries (PyTorch, TensorFlow, Jax), OpenCV, NVIDIA

WORK EXPERIENCE

Reeplayer

Software Engineer Intern

Culver City, California

May 2022 – August 2022

- Launched 4 state-of-the-art video resolution services by providing NVIDIA Maxine API to provide AI visual effects.
- Reduced video camera noise by 80% and encoding artifacts by 55% with CUDA C/C++ to provide end-user utilities.
- Improved code coverage from 60% to 80% by modularizing Data Access Objects in Junit tests for camera functionalities.
- Contributed to redesigning the brochure site utilizing 4 AWS Services (EC 2 Instance, Cognito, Lambda, RDS).

DNB

Goyang-si, South Korea

Full-Stack Software Engineer Intern

- Accelerated customer retention by 30% by designing a user-friendly DNB brochure site with JSP, HTML, CSS, and JS.
- Revamped working process to save 8+ hours per week by modularizing program codes with Spring MVC framework.
- Developed and maintained 40+ backend end user services of websites managing 6+ databases in MySQL workbench.
- Designed a user-friendly brochure site utilizing HTML, CSS, and JavaScript, resulting in 15% increase in monthly profits.

RESEARCH EXPERIENCE

Automated Program for Dickinson First Year Seminar (FYS) Assignment

May 2022 – Present

- Authored automated Python program with Gurobi solver to assign 660+ Dickinson freshmen to 42+ seminars.
- Balanced gender and international student ratios by 85% in FYS classes maintaining 16+ course capacities.

PROJECTS

Albert Einstein Q&A System [\[https://github.com/JuheonChu/Natural-Language-Processing/tree/main/projects\]](https://github.com/JuheonChu/Natural-Language-Processing/tree/main/projects)

- Built Question-Answering deep-learning model with ALBERT on SQuAD 2.0 dataset to predict answer with trained data.
- Constructed a pipeline that trains 150,000 questions on Albert Machine Learning model to manage words in 3-D space.

Pokemon Database [\[https://github.com/JuheonChu/pokemonDB\]](https://github.com/JuheonChu/pokemonDB)

- Designed user-friendly website to interact with 6 data sets and represent relational details of 230+ Pokemon features.
- Implemented MySQL and JDBC to construct 6 Data Access Objects and connect to 20+ backend services using JSP Servlet.

Operating System (OS) Kernel [\[https://github.com/JuheonChu/OS-kernel\]](https://github.com/JuheonChu/OS-kernel)

- Demonstrated 16-bit operating system capable of concurrent execution of 8+ open source OS prompt commands.
- Employed Low C/C++ and Bash to construct file I/O system and establish pipeline to link 4+ software to disk image.

The One Korea [\[https://github.com/JuheonChu/theOne\]](https://github.com/JuheonChu/theOne)

- Created responsive franchise-launch website with Spring MVC framework to assign unique URL across 2 franchises.
- Implemented 16 UX/UI services for admin, franchisees, and customers by connecting Datasource beans to MySQL server.

CERTIFICATION

Certified Scrum Master (CSM), *Scrum Alliance*

Expected December 2023