

Juheon (John) Chu

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Github

EDUCATION & CREDENTIALS

Dickinson College

Carlisle, PA, USA

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

Expected December 2023

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

Relevant Courses: Analysis of Algorithms, Operating Systems, Data Structure and Algorithms, Computing Abstractions, Computability and Complexity, Database Systems, Operations Research, Real/Complex Analysis, Abstract Algebra

Honors & Awards

- [The Forrest E. Craver Memorial Prize in Mathematics](#): Awarded to excel in mathematics among junior students
- Dean's List: 5 semesters

WORK EXPERIENCE

Reeplayr, Culver City, CA, USA

May 2022 – August 2022

Software Engineer Intern (CUDA, C/C++, NVIDIA Maxine, AWS)

- Launched 4 state-of-the-art video resolution services by providing NVIDIA Maxine API to provide AI visual effects.
- Managed to reduce video camera noise by 80% and encoding artifacts by 70% to provide better end-user experiences.
- Improved code coverage from 60% to 80% by modularizing Data Access Objects in Junit tests for camera utilities.

DNB, Goyang-si, South Korea

May 2021 – September 2021

Full-Stack Software Engineer Intern (Java, JavaScript, HTML/CSS, MySQL, JSP Servlet, Spring MVC)

- Accelerated customer retention and user clicks by 30% by designing and user-friendly DNB brochure site.
- Revamped working process to save 8+ hours per week by modularizing program codes with MVC framework.
- Developed and maintained 40+ backend end user services of websites managing 6+ database attribute types.

RESEARCH EXPERIENCE

First-Year Seminar (FYS) Assignment (Python, Git, Mixed-Integer & Quadratic Programming)

May 2022 – Present

- Authored automated Python web program to assign 660+ Dickinson freshmen to 42+ First Year Seminar courses.
- Achieved to balance gender and international student ratios by 85% in FYS classes maintaining 16 course capacities.
- Collaborated with Professor Forrester in Dickinson to improve heuristics algorithm, improving runtime by 40%.

PROJECTS

Personal Portfolio Website (HTML, CSS, JavaScript, jQuery) [<https://github.com/JuheonChu/ResponsivePortfolio>]

- Created personal portfolio website employing HTML, CSS, JavaScript, and external libraries and frameworks.

Pokemon Database (Java, HTML/CSS, JavaScript, jQuery, MySQL, JSP Servlet) [<https://github.com/JuheonChu/pokemonDB>]

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

Operating System (OS) Kernel (C/C++, Assembly, Bash, Linux, Virtual Machine) [<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 Linux to construct file I/O system and establish pipeline to link 4+ software to disk image.

The One Korea (Java, HTML/CSS, JavaScript, jQuery, MySQL, JSP, Spring MVC) [<https://github.com/JuheonChu/theOne>]

- Achieved to create responsive franchise-launch website to assign unique URL to franchisees across 2 franchise brands.
- Implemented 16 UX/UI services by extracting 12+ Spring dependencies for admin, franchisees, and customers.
- Collaborated with 2 students to operate 500+ coding files with MVC framework, improving user experiences by 45%.

Nike Model Design (Java, HTML/CSS, JavaScript, jQuery, MySQL, JSP MVC) [<https://github.com/JuheonChu/nikePractice>]

- Designed user-friendly shopping mall capable of 8+ UX/UI services to serve as a working example of NIKE.
- Performed MySQL, jQuery, AJAX and JSP Servlet to fetch 700+ product and service data from 40+ HTTP web server.

LANGUAGE & SOFTWARE

Programming Languages:

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

Software & Framework:

AWS, React, Node.js, Github, Linux, jQuery, JSP, Spring MVC, Docker, Kubernetes