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| Juheon (John) Chu | * [juhuhni98@gmail.](mailto:juhuhni98@gmail.)com |  (717) 636-3611 * [John Chu - linkedin](https://www.linkedin.com/in/john-chu-72788b157/) |  Carlisle, PA 17013 * [Github](https://github.com/JuheonChu) |

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](https://www.dickinson.edu/info/20032/mathematics/243/prizes_and_awards): Awarded to excel in mathematics among junior students
* Dean’s List: 5 semesters

WORK EXPERIENCE

Reeplayer*, 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](http://www.dnbprema.com)*, 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/ResponsivePortfoli*o](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*](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*](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*](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

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| 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