Nicholas Denton-Cheng

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EDUCATION

Columbia University — Expected Graduation Date: May, 2023
Bachelor of Arts in Computer Science — *New York, NY*

- *GPA*: **3.6/4.0**, Dean's List (Fall 2021, Fall 2020)
- *Relevant Coursework:* Fundamentals of Distributed Systems, Advanced Programming, Data Structures in Java, Computational Linear Algebra, C++ for C programmers, Computer Science Theory, Introduction to Databases

SKILLS

- *Technical Skills:* Firebase, Mulesoft, Git, SQL, MongoDB, Google Sheets, Google Forms, Excel, PowerPoint, Word, Power BI, Azure DevOps, Unix/Linux environments, HTML/CSS
- *Programming Languages:* Python (numpy, pandas), Java (TestNG), Dart (Flutter), C, C++, Go, Javascript

PROFESSIONAL EXPERIENCE

Cannondale — July 2022 – Sept. 2022
Software Engineer Intern — *Wilton, CT*

- Ensured reliable and consistent data transfer in compliance with modern cybersecurity protocols by developing custom middleware APIs for data warehouse management using Mulesoft and Anypoint Studio.
- Automated quality assurance testing by utilizing custom Java TestNG scripts to run 200 tests, identifying 4 critical software deficiencies, and leading to transformation of API response system.
- Collated security information from 3 disparate sources into a customized Power BI presentation for key stakeholders to demonstrate security concerns and errors at a glance.

Lumentee — June 2021 – Sept. 2021
Lead Software Engineer Intern — *Westport, CT*

- Spearheaded design and development process for education-based web, iOS, and Android social media app, implementing scalable infrastructure to support 4,000+ end users.
- Sourced, analyzed, and reworked 3,000 lines of legacy code to employ modern programming paradigms.
- Designed database and optimized storage for high volume and variable loads, providing frictionless user experience while minimizing cost.

Leadership Experience

CU Gamedev Club — Sept. 2020 – Present
Treasurer & Project Lead — *New York, NY*

- Collaborated with team of 10 executive board members to propose, manage, and submit annual club budget.
- Organized game development competition for over 100 developers and garnered 80 project proposals.
- Updated database of sponsors, preformed outreach to 50+ groups, and raised $500 worth of product.

Top Hat Tutors — Sept. 2018 – May 2019
Tutor & Music Director — *Westport, CT*

- Led creation of music branch for student-run tutoring organization, attracting 20 highly qualified tutor candidates.
- Mediated communication and payment between 45 clients and tutors, archiving information into database.
- Directed advertisement campaign to target 500 prospective clients through social media and local institutions.

PROJECTS (Computer Science)

Quotealine — June 2022 – Present
Independent Project — *New York, NY*

- Developed web application for shared quote storage, allowing users to save and share quotes and quote metadata.
- Implemented user authentication, spam detection, and pagination to secure data integrity.

Custom Web Server Creation — Sept. 2020 – Dec 2020
Independent Project — *New York, NY*

- Created web server from the ground up using C, enabling database linkage and search functionality.