

# David Cheung

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## Education

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**Northwestern University**, Evanston, Illinois Sep 2019 – June 2023

Master of Science in **Computer Science** | Bachelor of Science in **Computer Science**

Cumulative GPA: **3.92/4.00**

Relevant Courses: Agile Software Development, Web Development, Software Rapid Prototyping, Data Science, Game Development, Artificial Intelligence, Computer Science Education, Machine Learning, and Deep Learning.

**Northwestern University Data Science Bootcamp by edx**, Chicago, Illinois Dec 2023 – Present

GPA: 4.00

Relevant Skills: Excel, VBA, Python, JavaScript, Visualizations, ML/DL, and data analytics.

## Experience

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**ClassUp**, San Francisco Bay Area, California

*Student Tutor* 5/2023 – Present

- Provided 1-on-1 tutoring for grade 3 to 12 students in mathematics, physics, and computer science.
- Developed "Turbo Math," a responsive website game in React JS with Firebase Real-Time Database, helping students improve their speed in mental arithmetic by an average of 12%.
- Extracted and transformed data from Firebase and created personalized, real-time data-driven visualizations using D3 JS to help students monitor and assess their learning progress.

**Hexfork**, Oxford, United Kingdom

*Project Leader and Game/Software Developer Intern* 6/2023 – 9/2023

- Designed and developed 2D arcade games using Unity under client specifications.
- Led a team of five in project management, using tools like Trello, communication channels, and standup meetings to enhance productivity.

**CS + Law Innovation Lab**, Northwestern University, Evanston, Illinois

*Student Developer for the Law Center for Better Housing* 1/2023 – 4/2023

- Created a web application using ReactJS and MongoDB within the Help Scout platform, reducing housing inquiry response times by 15% by generating canned responses for paralegals based on inquiry classification.
- Engineered a Flask-based backend API to extract and classify housing inquiries, applying machine learning (KNN) for automated categorization.

**Agile Software Development**, Northwestern University, Evanston, Illinois

*Student Developer for Researchers at Adobe* 3/2022 – 6/2022

- Developed a legal PDF parser application in ReactJS with Firebase backend support to extract and simplify critical information from legal documents into user-friendly terminologies.
- Implemented term matching to identify and filter relevant information, enhancing document analysis accuracy.

**Northwestern University**, Evanston, Illinois

*Undergraduate Teaching Assistant* 4/2021 – 6/2023

- Assisted fellow students in digital circuits, data science, computer graphics, and artificial intelligence courses, offering guidance in understanding course materials, debugging, and reading documentation.
- Taught underclassmen peers the usage of modern software technologies, including Visual Studio Code and GitHub, to promote independent and effective programming.

## Skills

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**Programming Languages:** Java, JavaScript, Python, C#, and SQL

**Framework, Engines, and Databases:** React, Unity, Firebase, MongoDB

**Data Analytics:** Excel – excel functions, look up tables, Visual Basics