

James (Wonshik) Choi

620 E 11th St, New York, NY 10009 | (646) 799-3223 | wc1414@nyu.edu | [jameschoi97.github.io](https://github.com/jameschoi97) (More interactive resume here)

Education

New York University, College of Arts and Sciences

New York, NY

B.A. in Computer Science / Mathematics with Honors

Expected May 2022

- Current GPA: **3.95/4.0** (Major GPA: **4.0/4.0**)
- Honors: CAS Presidential Scholars Honors, Dean's List (2016 – 2019), DURF Grant Recipient

Relevant Coursework

Computer Science: Data Structures, Computer Systems Organization, Basic Algorithms, Operating Systems, Artificial Intelligence, Computation Theory, Numerical Optimization, Parallel Computing, Computer Networks

Mathematics: Calculus, Linear Algebra, Probability Theory, Numerical Analysis, Real Analysis, Abstract Algebra

Work Experience

Courant Institute of Mathematical Sciences

New York, NY

Web Administrator

October 2017 – September 2019, September 2021 – Present

- Receive requests from math / computer science department faculty members and edit / manage websites, mainly through using Django or editing the HTML code on the Linux server.
- Participate in projects such as using Google Apps Script to modify the CS department's Internship Approval Form. Currently working on migrating CSS files to SCSS.

GE Appliances

Seongnam, Korea

Mobile Software Development Intern

April 2021 – August 2021

- Worked on SmartHQ Service Team, primarily focusing on the cross-platform built with Flutter SDK.
- Drafted, revised, and submitted patent applications, three of which are approved and pending company filing.
- Placed 3rd in the company-wide hackathon, which focused on over-the-air appliance update solutions.

Republic of Korea Army, VII Corps, 107th Signal Battalion

Icheon, Korea

Soldier (Sergeant / Squad Leader from October 2020)

September 2019 – April 2021

- Supervised a 10-man squad, periodically managing and assessing the members' training levels and task maintenance.
- Operated communication equipment and set up the tactical networks throughout field training exercises.

Technical Skills

Programming Languages: Python, Java, C, HTML, JavaScript, MATLAB, Swift, Dart

Additional Skills: LaTeX, Korean, Spanish, Microsoft Excel/Office, Google Workspace

Personal Achievements

Optimization of Feature Selection

- My research paper written for NYU math department's SURE (Summer Undergraduate Research Experience) program in 2019.
- Advised by Professor Esteban G. Tabak, the research addresses the problem of choosing a smaller number of important attributes, given data points that each consists of a larger number of attributes.
- The research paper, posted on the NYU website, describes the process of building a prediction model and optimizing over the features of data points to minimize the error between the prediction and the real data.

Dogs&Cats

- A project built during HackNY's 2018 Hackathon. The project was awarded **Best Use of GIPHY API** award.
- Built using Flask, the web app accepted requests for and sent animal GIFs over SMS using Twilio API. For every 3 GIFs requested, users would automatically receive facts and resources about Animal Care Centers of NYC, an organization dedicated to personal placement of stray / abandoned animals in New York.

Extracurricular and Leadership Activities

NYU College Cohort Program

New York, NY

Cohort President

August 2017 – September 2019

- Selected by a 40-person cohort to regularly communicate with the members, organize events, and instill a sense of community within the group.
- Attended NYU's Sophomore Leadership Development Series; topics included logistics of organizing events, helping transfer students transition into NYU, and team-building with the other cohort presidents.

Personal Interests and Hobbies

Cooking, Playing Music (Violin, Clarinet, Guitar, Harmonica), Hearthstone (Top 1%), Watching Movies (Currently at 400+ movies)