

Daniel Jin

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Education

- New York University** (GPA: 3.632/4.0) Sep 2023 - May 2025
Master in **Computer Science** in Courant Institute of Mathematical Sciences
- Rutgers, The State University of New Jersey** (GPA: 3.727/4.0) Sep 2019 - May 2023
Double major in **Computer Science**, **Mathematics**, minor in **Linguistic**, Graduated with great distinction

Skills

- Programming Languages:** Java, Python, C, C++, Ocaml, \LaTeX , SQL, JSON, Coq, $\text{L}\lambda\text{vN}$, Elixir
- Technical Tools:** PyTorch, Git, Flask, Node.js, Iris, RapidMiner, Linux, menhir, ocamllex, ROS
- Specialized Skills:** Programming Languages, Machine Learning, NLP, Compiler, Unit Testing, Verification

Employment

- Data Structure Course Assistant**, New York University – New York City, NY Sep 2023 – Ongoing
- Developed unit tester in Java and shell script for grading students' coding assignment, used by over 800 students
 - Independently led recitations and office hours for 60+ students per semester, with 100% positive feedback
- Product Management Intern**, Baidu – Beijing Jun 2024 – Aug 2024
- Product manager for LLM based AI business intelligence product that allows natural language queries on SQL databases
 - Oversaw delivery of 5 products, each valued over 10,000 USD
 - Streamlined product delivery process by allowing outsourcing, reducing delivery time by 40%
 - Designed and monitored the integration with AppBuilder, a specific purpose LLM building platform
- Intro to CS Head TA**, Rutgers University – New Brunswick, NJ Sep 2020 – Dec 2023
- Oversaw intro to computer science class in Java and designed all recitation materials with class size of 1000+
 - Received overwhelmingly positive reviews from students in the university-wide anonymous survey
 - Trained and managed 30+ section leaders per semester, fostering consistent and effective teaching among all sections

Projects

- Transit-Driven Retail** Sep 2024 - Ongoing
- Leading a team of three predicting retail vacancy in NYC, leveraging data from public transit and crime records
 - Utilized Python and RapidMiner together for data gathering, cleaning, modeling and visualization
 - Achieved vacancy prediction accuracy within a margin of error of fewer than 12 stores per area.
- MiniOO** (github.com/v0lv0/minioo.git) Sep 2023 - Jan 2024
- An object-oriented programming language interpreter written in Ocaml with Menhir and Ocamllex
- Applying BMRs for Phonological Analysis** (github.com/rucll/bmrs) Sep 2021 - May 2023
- Designed and coded a BMRS transducer in Python that simulates computational phonology functions
 - The result was presented in Annual Meeting of Phonology 2022 in UCLA with professor Jardines

Extracurricular activities

- Rutgers IEEE Executive Board, Quartermaster** Sep 2020 - May 2023
- Oversaw lab computers, servers, 3D printers, and power tools for robotics division
 - Coordinated and facilitated weekly meetings and events, boosting club engagement among 1000+ members
- Rutgers IEEE Robotics Team (Micro-mouse and IGVC)** Sep 2019 - May 2023
- Algorithm instructor for Micro-mouse team, taught team members data structures and algorithms for maze solving
 - Won second place in the East Coast during 2020 Princeton Micro-mouse Competition
 - Coded an autonomous vehicle with a team of engineers that navigated through obstacles for the IGVC competition
 - Trained and implemented AI models for obstacle detection and path finding in ROS(Robotics Operating System)
- TeamRU backend development team** Jan 2022 - May 2023
- Developed the backend of a serverless application for team matching using flask and MongoDB
 - Deployed during COVID for online Rutgers hackathon, allowing participants to form teams and submit projects