

Jared Ni

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Education

Bachelor's in Computer Science. GPA: 3.84/4.0
Harvard University

Aug. 2021 – May 2025
Cambridge, MA

- **Relevant coursework:** systems programming and machine organization, algorithms, full-stack web programming, computational abstraction and design, statistics, linear algebra, calculus, discrete math, etc.
- **Leadership/Activities:** Senior Dev at Datamatch, Technology Associate at The Harvard Crimson, Research Fellow at Undergraduate Machine Intelligence Community, Volunteer at Harvard Square Homeless Shelter.

Experience

Software Engineer Intern
Fidelity Investments

June 2022 – Aug. 2022
Boston, MA

- Created Java Spring Boot backend service that channels conversational data and research notes published in Microsoft Teams into a database to display on an internal UI in real-time to thousands of employees.
- Exponentially improved time efficiency of data delivery by designing and implementing a multi-threaded bash process for data fetching and processing, reducing scheduler runtime by more than 40 seconds.
- Configured CI/CD pipeline using Jenkins and Karate testing framework.
- Improved project code coverage through writing 500+ lines of Junit and automation tests.

Frontend Software Developer
Arda

Oct. 2021 – May 2022
Cambridge, MA

- Worked on Arda Deliver, an android app that allows medical clinics to request and track vaccine orders.
- App received \$70k in initial funding and is currently being tested by The Gambian Ministry of Health.
- Engineered map layout using Mapbox SDK and implemented real-time tracking of drone-delivered orders using drones' GPS coordinates.
- Designed most of the UI/UX by utilizing Figma and built app layouts using Java.

Computer Science Course Assistant
CS50: Introduction to Computer Science, Harvard University

Aug. 2022 – Present
Cambridge, MA

- Host tutorials and office hours for 30+ undergraduate students weekly, teaching core CS concepts such as algorithms and data structures and helping students develop algorithmic thinking using C and Python.

Relevant Projects

2022 Datamatch Web App

Oct. 2021 – Feb. 2022

- Engineered a survey-based matchmaking service used by students at Harvard and 42 other colleges.
- App generated 235k matches and had 52k active users in 2022.
- Implemented the business logic and frontend of the chat and search box components using React, built database infrastructure with Firebase Cloud Functions.
- Designed and engineered a post-survey feedback feature that improves user interaction and enables sharing of survey results directly to social media sites.

Personal Website

Aug. 2022 – Aug. 2022

- Designed and created a personal website (<https://jaredni.com>) using React, CSS, Netlify, and MongoDB.

OCaml Interpreter

April 2022 – May 2022

- Interpreter for a Turing-complete subset of OCaml that supports functional operations composed of primitive and complex types, capable of evaluating expressions using substitution, dynamic, and lexical scopes.

Napchat

Nov. 2021 – Dec. 2021

- Social Media web app that gamifies healthy sleep habits by allowing users to log sleep hours and compete with friends in weekly sleep score rankings; built with Python Flask, Firebase, JavaScript, CSS/ HTML, and deployed to Heroku.

Technical Skills

Languages: Python, Java, JavaScript, C/C++, SQL, HTML/CSS, XML, OCaml.

Technologies: React.js, Node.js, Spring Boot, Flask, Firebase, MongoDB, AWS, HTTP Requests, Git, Docker.