

# SELENA ZHOU

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## EDUCATION

### Dartmouth College

*Bachelor of Arts, Major in Computer Science, Double Minor in Film Studies & French*  
GPA: 3.95/4.0

**Jun 2026**

*Hanover, NH*

*Key Courses:* Algorithms, Security & Privacy, Probability, Software Design & Implementation, Computational Linguistics

*Activities:* [Dartmouth Women in CS](#) Web Dev, HackDartmouth Co-Director

*Honors/Awards:* Sandra & Arthur Irving Family Scholarship Recipient, Dartmouth Honor List

## EXPERIENCE

### MongoDB

*Software Engineering Intern*

**Jun 2025 – present**

*New York City, NY*

- Developing an internal tool to automate performance regression detection by comparing benchmark results from PRs against the main branch. Automatically generates PR comments for significant deviations and linking to the affected benchmarks.
- For MongoDB Go-Driver open-source project with 8,000+ users. Tech stack: **Golang, Bash, YAML**

### Digital Applied Learning and Innovation (DALI) Lab

*Software Developer*

**Sep 2023 – present**

*Hanover, NH*

- Collaborate with teams of designers and engineers to build and deploy full-stack web apps. Deliver high-impact solutions to community problems. Tech stack includes **React.js, Javascript, Typescript, MongoDB, Directus**.
- Built Link~VT, a web app that connects local citizens in Vermont who are out of work due to injury to personalized resources and career coaches. Responsible for databases, user accounts, resource table and search filters, reaching 400+ users in VT.

### MongoDB

*Software Engineering Intern*

**Jun 2024 – Aug 2024**

*Austin, TX*

- Completed a project responsible for a mass migration of an outdated repository to a mono-repo with standardized configurations, affecting 300+ internal developers. Tech stack: **Typescript, React, Go**
- Implemented a search feature that filters for triggers names using fuzz query and debounced search. Affects 250+ global apps.

### Dartmouth College Computer Science Department

*Teaching Assistant for COSC 10: Object Oriented Programming (Java)*

**Jan 2023 – present**

*Hanover, NH*

- Lead weekly lectures teaching algorithms and data structures in **Java**. Hold tri-weekly office hours to debug student code.
- Grade and provide feedback on assignments, hold review sessions, and mentor 80+ students in object-oriented programming.

## COURSE PROJECTS

**WhisperChain+** – encrypted anonymous messaging system in terminal, [link](#)

**April 2025 – May 2025**

- A secure anonymous messaging delivery, where users can send and receive messages in a securely encrypted environment. Features SHA-256 **encryption/decryption**, **RSA key pairs**, and **blind tokens**. Runs in terminal, coded in **Python**.

**Pengulingo** – multiplayer language learning game in React.js, [link](#)

**May 2024 – Jun 2024**

- Essentially Kahoot and Duolingo combined. Built an app that helps people learn languages in fun and competitive multiplayer minigames in **React** with **MongoDB** database storage. Real-time gameplay updates. All graphics are original designs.

**Noteam** – collaborative notes app in React.js, [link](#)

**Apr 2024**

- Built a multi-user notes app that updates in real-time in **React** with **Firebase RealTime** database storage. Supports markdown, mobile view, fully customizable notes, and multi-browser usage. [link to source code](#)

## PERSONAL PROJECTS

**AstroRun** – personal project in Python, [link](#)

**Apr 2023 – May 2023**

- Coded a 2D platformer in Pygame, with published executable file. Created original artworks for all in-game graphics.

**rEVBot** – personal project, [link](#)

**Feb 2021 – Mar 2021**

- Developed and deployed educational Discord bot about electric vehicles. Features embedded live mini-game functions, server leaderboards, and virtual wallet in **Python** with 100+ users and 50+ community members. Hosted using **Heroku Cloud API**.
- Leaderboard and wallet information stored in **Cloud Firestore DB**. Supports data-parsing for key words handling .csv files.

## SKILLS & INTERESTS

**Proficient in:** Python, React.js, Java, Typescript, Javascript, Golang, HTML/CSS, Git, LaTeX, Figma, Final Cut Pro

**Familiar with:** C, Bash, SQL, Mongo DB, Firebase DB, Adobe CC (Photoshop, Lightroom, Premiere, Illustrator)

**Languages:** English (fluent), Mandarin (fluent), French (working proficiency)

**Interests:** Biking, photography, game design, Lego Sets, Stardew Valley, flag football, film analysis, junk journaling