

# Vincent Lin

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## EDUCATION

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### University of California, Berkeley

Expected Dec 2024

*Bachelor's in Computer Science, Minor in Data Science*

- **Relevant Coursework:** Data Structures, Algorithms, Structure and Interpretation of Computer Programs, Discrete Mathematics and Probability, Linear Algebra, Machine Structures, Computer Security, Database Systems, Principles of Data Science
- **Programming Languages:** Java, Python, JavaScript, TypeScript, HTML, CSS, SQL, C, RISC-V Assembly
- **Technologies:** React, Node, Next, Express, MongoDB, REST, Git, AWS, MySQL, PostgreSQL, SQLite, Flask, JUnit, Pandas

## EXPERIENCE

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### Nomify

May 2023 - Present

*Software Engineer Intern*

*Remote, USA*

- Spearheaded the development of internal admin tools utilizing TypeScript, React, PostgreSQL, streamlining internal operations.
- Collaborated with the Engineering team to integrate advanced NLP search functionality leveraging OpenAI and ChromaDB. Utilized embedded vectors and the Nearest Neighbor Search Algorithm to provide enhanced product suggestions.
- Designed and implemented an OLAP system, optimizing data processing and visualization. Engineered a sophisticated data pipeline using AWS SQS and Lambda for periodic event transfer to Snowflake, further visualized with Tableau.

### Web Development at Berkeley

Feb 2023 - Present

*Full Stack Developer*

*Berkeley, CA*

- Engineered and architected dynamic, user-centric web applications utilizing a tech stack including React, TypeScript, Next, and MongoDB. These innovations directly contributed to 25% surge in user engagement and 30% enhancement in site performance.
- Pioneered the implementation of a comprehensive unit testing strategy, yielding a substantial 40% reduction in post-deployment bugs and demonstrating a marked improvement in overall code stability.
- Adopted agile methodologies to boost project velocity and collaborated closely with designers to refine user interface.

### UC Berkeley Electrical Engineering and Computer Sciences (EECS)

Aug 2022 – May 2023

*Academic Intern*

*Berkeley, CA*

- Assisted weekly lab sections for 40+ students, providing guidance on advanced data structures concepts in Python and Java.
- Maintained lab curriculum using Git and GitHub, ensuring version control and easy access for students.
- Designed and delivered mini-lectures on course material, enhancing students' understanding and engagement.

### Taiwanese American Student Association @ Berkeley

May 2022 - Dec 2022

*Webmaster*

*Berkeley, CA*

- Drove a remarkable 10% surge in website traffic by implementing advanced optimization strategies, leveraging a tech stack including HTML, CSS, Flask, and jQuery. This transformation enhanced the organization's online visibility and accessibility.
- Applied sophisticated data analytics to meticulously track website performance and user behavior. The insights gleaned facilitated data-driven decision-making, resulting in a comprehensive redesign that led to an impressive 15% increase in user engagement.

### PilotCity

Sep 2019 - Jan 2020

*Software Engineer Intern*

*San Leandro, CA*

- Spearheaded a comprehensive overhaul of the user interface by implementing cutting-edge response designs using HTML, CSS, and JavaScript. This transformation significantly improved user experience, resulting in a 20% increase in user engagement.
- Played a pivotal role in cross-functional collaboration with business analysts, developers, and infrastructure specialists. This collaborative effort led to the resolution of critical technical challenges and the successful deployment of new features.

## PROJECTS

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### SnackMatch - [github.com/vincenttlin/SnackMatch](https://github.com/vincenttlin/SnackMatch)

- A MERN stack web app integrating Yelp API and featuring a Tinder-style UI simplifying group restaurant selection.
- Implemented web sockets with sockets.io to sync multiple users in real-time. Utilized Redux for simple state management.

### ChattyGPT - [github.com/vincenttlin/chattyGPT](https://github.com/vincenttlin/chattyGPT)

- Built an AI chatbot using OpenAI API to generate natural language responses to user inputs.
- Successfully incorporated chat history management, talk-to-text and text-to-speech functionality using Web Speech API.