

# Amit Bar

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## Education

**UC San Diego – Computer Science (B.S.)**

June 2022

GPA: 3.79, Provost Honors

## Skills (ordered by proficiency)

**Languages:** Java, C/C++, JavaScript, Python, HTML/CSS, Bash

**Frameworks/Libraries:** Node.js, React.js/Redux, TypeScript, Express.js, Flask, Mongoose.js, PyMongo, Bootstrap, socket.io, Sass, Angular, RxJS

**Tools:** Git, MongoDB Atlas, Firebase, AWS, Heroku/Netlify, Dialogflow, Postman, Unix CL

## Work Experience

**Software Engineer Intern** – Lytx

October 2020 – Current

*Fleet management solutions company*

- Improving risk-analysis platform by providing data-driven visual representation of risks for customers' mapped driving routes (**Angular/TypeScript, RxJS**)

**Lead Frontend Engineer** – HouseIt

October 2020 – Current

*Startup for UC San Diego students to find housing and roommates*

- Leading a team of 4 developers to build the platform's frontend using **React.js/Redux, Typescript, Sass, Bootstrap**

**Computer Science Tutor** – UC San Diego

September 2019 – Current

*Computer Science and Engineering Department*

- Tutored computer science concepts to over **500 students** across introductory **Object-Oriented Design** courses (CSE 8B, CSE 11, Summer Program for Incoming Students) in **Java** and **Python** and an advanced **Data Structures** course (CSE 100) in **C++**
- Debugged software issues to correct student's software misconceptions; tested new assignments; independently learned new technologies (such as **Flask, PyMongo**) to update outdated assignments

**Software Developer Intern** – surance.io

July 2019 – November 2019

*Personal cyber protection and insurance company*

- Launched an insurance chatbot using **Dialogflow (NLP), Firebase, and Node.js** to help with customer support, **saving 20%** in customer support costs
- Automzied creating insurance incidents, reducing agent-customer interaction by **40% per claim** for the thousands of customers using the chatbot (expected to grow to **over 1.5 million users** by end-2021)

## Projects

### Triton Exchange

- Developed a full-stack e-commerce site in team of 10 developers to establish a secure and user-friendly "hub" for UCSD student retail (**React.js/Redux, TypeScript, Bootstrap, Sass, AWS, Netlify**)
- Used **Google OAuth** to restrict users to only UCSD personnel, reducing scams/spam posts by almost 100%

### Messenger

- Created a full-stack messaging application to allow for persistent messages to individuals and/or groups (**React.js/Redux, TypeScript, Express.js, Mongoose.js, Bootstrap, socket.io, MongoDB Atlas**)

### Path Finder Visualizer

- Built a front-end web application to visualize path finding algorithms (**BFS, Dijkstra's, A\***) on a user-customizable 2D graph (**Node.js, React.js/Redux, TypeScript, Bootstrap**)