Joshua Tan

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EDUCATION

Brown University, *B.S. Computer Science, B.A. Economics,* **4.0/4.0 GPA**   Providence, RI | **Class of 2023**
- Highlighted CS coursework**:** Software Engineering, Computer Systems, Web & Mobile Applications, Computer Networks, Database Management Systems, Operating Systems, Distributed Systems, Deep Learning, Blockchains, Computer Vision
- Honors: Phi Beta Kappa, Omicron Delta Epsilon, Magna Cum Laude (Highest Latin honors at Brown)

EXPERIENCES

Rippling, *Software Engineer Intern*   San Francisco, CA | Summer 2022
- Worked at a YC-backed Unicorn to launch a new hiring software product using Django, MongoDB and React.
- Developed key product features, mostly on the backend, such as an application-wide permission system and a central dashboard. For these features, I was given significant ownership over the development and technical design.
- Collaborated with other engineers within my team and across teams to integrate these features with Rippling's suite of products, such as the employee graph and platform-wide permissions.

Government Technology Agency (Singapore), *Software Engineer Intern*   Singapore | Summer 2021
- Developed features for a government grants web portal using React and Ruby on Rails, as part of an agile team.
- Practiced Test-Driven Development, using test libraries like Enzyme and Mocha for the frontend and RSpec for the backend.
- Maintained and refactored legacy code to reduce technical debt and patch security vulnerabilities.

Develop for Good, *Backend Software Developer*   Remote | Spring 2021
- Collaborated with a team of designers and developers to create a mobile application for the Environmental Defense Fund that allows them to communicate and interact with their environmental activists.
- Designed and programmed a RESTful backend server using Node.js and a MongoDB database, along with documentation.

Theme International Trading, *Software Engineer Intern*   Singapore | Summer 2020
- Designed and developed internal software tools using the .NET framework for a quantitative trading firm.
- Programmed an application that interacts with external APIs to automate the OTC trade execution and clearing process.
- Developed an invoice management application that aggregates data from multiple sources for the firm's financial controllers.

Full Stack at Brown, *Software Developer*   Providence, RI | Jan 2020 – May 2022
- Full-stack developer at a student organization that develops web and mobile applications for the Brown community.
- Worked on the full-stack development of the Brown Essentials mobile application and the 1st@Brown mobile application.

TECHNICAL PROJECTS

tutoring.sg | Next.js, Tailwind CSS, Node.js, MongoDB
- Commission-free matching service and two-sided marketplace for private tutors and students in Singapore.
- This was a completely solo project where I did everything, including design, development and deployment.

Circles | React Native, Node.js, Google App Engine, Google Datastore
- Privacy-centric social media platform with features to promote physical interactions and quality connections.
- Won the Wolfram Award at Brown University's annual Hackathon.

13F Tracker Twitter Bot | Node.js, PostgreSQL
- Every quarter, investment managers across the US are required to declare their positions via a 13F filing to the SEC.
- Developed a bot that automatically parses these filings and tweets out significant changes from the most prominent investors.

Food Capture | React Native, Node.js, MongoDB
- Mobile application platform that notifies users of any events with free leftover food with the goal of reducing food waste.
- Event organizers can create posts with pictures and broadcast them to users within a certain school campus or office building.

First @ Brown | React Native, Node.js, PostgreSQL
- Mobile application that allows college freshmen to connect with other freshman based on their responses to survey prompts.
- Features include a real-time chat application implemented using web sockets and authentication via school google accounts.

Secret Shop | React.js, Bootstrap, Node.js, MongoDB
- Web marketplace to buy, trade or sell used video games.
- Includes a chat application for users to negotiate on price and a user profile to display games available for trading.

Coordinator | React.js, Spark Java, SQLite
- Web application that generates optimal meeting times for a group of people based on their availability calendar.
- Application can also split users into subgroups with similar availabilities using a variation of k-means clustering.

SKILLS

Programming languages: Golang, TypeScript/JavaScript, Python, Java, C, Scala
Full stack development: Next.js, React.js, React Native, Tailwind CSS, Node.js (Express), Firebase, Django, MongoDB, SQL, Git, Docker, Agile practices