JAMES LEONG

✉ zhiming.leong@duke.edu   📞 (984) 245-5399   ⌂ jamesleong.me   in linkedin.com/in/jameszleong   ⊕ github.com/JamesLeong98

EDUCATION

Duke University   **Durham, NC**
Bachelor of Science in Computer Science, Minors in Economics and Asian & Middle Eastern Studies   Expected Graduation: Dec 2022
- GPA: 4.0/4.0, Phi Beta Kappa Honor Society (top 1% of Junior class), Dean's List with Distinction (all semesters)
- Coursework: Data Structures & Algorithms, Databases, Computer Architecture, iOS Programming, Machine Learning

WORK EXPERIENCE

Stripe   **Seattle, WA**
Software Engineer Intern   May 2022 - Jul 2022
- Designed and shipped full-stack feature allowing developers to initialize and edit metadata of 2000+ operational tasks directly from platform UI. This significantly reduced code churn by eliminating existing need to edit code and create PRs in order to update metadata.
- Resolved increased platform latency caused by added database querying, preventing page timeout occurrences during feature rollout.
- Improved code quality by writing a script to deprecate over 4000 lines of legacy code in the background, with no disruption to users.
- Independently drove feature discussions with designers and end-users to garner actionable feedback and maximize project outcomes.

TikTok (ByteDance)   **Mountain View, CA**
Software Engineer Intern   May 2021 - Aug 2021
- Streamlined internal SEO tracking process by developing a full-stack dashboard for Communications team to track engagement of web articles. Automated process of manually compiling SEO data reports by coding a bot to generate scheduled weekly reports.
- Designed a scalable workflow translating multi-formatted content on WordPress Content Management System into new UI components on website, through WordPress custom blocks and Frontity React framework. Built these React UI components from Figma designs.

Stealth Startup   **Singapore**
Software Engineer Intern   May 2020 - Aug 2020
- Wrote stateful and modular React components to improve visual interface of search page and display metadata of content nodes.
- Designed in-memory tree-based data structures in Go, reducing latency by enabling faster propagation of content node updates.

EXTRACURRICULAR ACTIVITIES

Duke Database Group   **Durham, NC**
Software Developer   Jan 2021 - Present
- Developed an interactive SQL debugging and query tracing tool targeted at improving student learning. Built using Vue.js and Flask.
- Presented at the Association for Computing Machinery's Special Interest Group on CS Education (SIGCSE) Technical Symposium 2022.

HackDuke (Duke University's Hackathon Organization)   **Durham, NC**
Tech Lead and Engineer   Aug 2020 - May 2021
- Led a team of five student engineers to code and deploy the HackDuke organization and related event websites in React.
- Assisted in the planning and execution of Duke's first virtual Hackathon and design events, attracting over 1200 applicants.

PROGRAMMING PROJECTS

Mini-Amazon Clone Website
- Blueprinted and built a full-stack Amazon clone marketplace in MongoDB, Express, React, Node.js (MERN).
- Designed NoSQL database schemas for users, items, reviews, orders, and wrote RESTful APIs with JWT authentication on backend.

The Lost Food Project Dashboard
- Coded the React frontend of a centralized donation web application that streamlines collection and delivery of food donations.
- Interfaced with UI/UX designer to build UI components from Figma, and worked with two backend engineers to design REST APIs.

Duke Personal Assistant Mobile App
- Created an iOS mobile app integrated with Duke's curricular APIs, allowing students to keep track of courses, events and deadlines.
- Built a device-responsive UI on Xcode storyboard, and used native iOS Core Data framework to store user's favorited selections.

SKILLS

Programming Languages: Java, JavaScript, TypeScript, Python, Ruby, HTML, CSS, SQL, C, Golang
Frameworks & Technologies: React, Node.js, Vue.js, MongoDB, GraphQL, Flask, WordPress