Jacob Damasco

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EDUCATION

University of Southern California   Los Angeles, CA
B.S., Computer Engineering & Computer Science   Expected Graduation: Dec 2024
- **Relevant Coursework:** Data Structures & Object-Oriented Programming, Algorithms, Software Development, Full Stack Web Development, Distributed Systems, Computer Networks, Artificial Intelligence, Operating Systems

WORK EXPERIENCE

Software Engineering Intern   May 2024 - Present
LACERA   Pasadena, CA
- Develop robust **test automation scripts** for an application monitoring tool using **TypeScript, JavaScript, Node.js, and Microsoft Playwright,** reducing manual end-to-end testing time by **over 40 hours** per month.
- Automate dynamic email and text message confirmations for two-factor authentication and account activity notifications for **188,000+ registered LACERA members** via the **Twilio and SendGrid APIs**.
- Collaborate with a **cross-functional team of engineers** to refactor code and documentation for SSO automation and application monitoring test scripts, cutting **parallel test execution time by 52%** and **debugging time by 12%**.

Software Engineering Intern   May 2023 - Aug 2023
Hexfork   Remote
- Designed **5+ responsive React.js components**, including navbars and dropdowns, into Hexfork's website, resulting in a **20% increase in website engagement** and improved site usability and navigation.
- Implemented efficient client-side routing with the **Next.js** framework, **reducing page load times by 50%**.
- Applied Strapi, a headless **Node.js-based** CMS, to seamlessly integrate the news page backend with the **React** frontend, providing real-time content updates to users.

Software Engineering Intern   Aug 2022 - May 2023
TeraThought   Los Angeles, CA
- Constructed **3+ widgets** following an MVVM design pattern, like a pop-up invite banner and a mobile navbar, utilizing **Kotlin and Android's Jetpack Compose** to create a prototype for a new mobile app, Shareful.
- Partnered with a team of designers, engineers, and project managers to decrease design-to-code conversion time by **2 days** and promote consistent UI development.

Physics Teaching Assistant   Aug 2020 - May 2022
University of San Francisco   San Francisco, CA
- Conducted office hours for a class of **100+ students** to assist them with physics assignments & exam preparation.
- Enhanced students' problem-solving abilities by explaining different physics concepts & visualizing problems step-by-step with diagrams, resulting in exam scores that **exceeded the 80% class average**.

PROJECTS

Google Calendar Task Management App | [Github] | [Demo]   Nov 2023
- Led a team of **6+ students** to implement a **full-stack mobile app**, Productiv, allowing users to schedule tasks, collaborate on tasks, and integrate tasks into Google Calendar by employing the **Google Calendar API**.
- Leveraged **Java Spring Boot** and **AWS RDS SQL database** to quickly construct a **REST API** that lets users add or remove tasks, collaborators, and task items via targeted endpoints, handling up to **20 API calls** per second.
- Utilized state management techniques using **React Native**, allowing smoother transitions between app pages.

OCR: Optical Character Recognition | [Github]   Nov 2022
- Built a **C++ program** that uses **polymorphism & inheritance** to identify numbers from 10+ images without machine-learning libraries while accounting for different fonts and styles.
- Devised an algorithm that analyzed pixel distributions and cluster patterns to detect numerical patterns in images.
- Incorporated **3+ mathematical techniques**, such as calculating the Euler number, symmetry, & center of mass, to accurately differentiate the digits 0 to 9 and pass **100% of the Google Test tests** provided.

SKILLS

- **Languages:** Python, Java, C/C++, JavaScript, HTML/CSS, TypeScript, SQL, Kotlin
- **Tools/Frameworks:** React.js, React Native, Git, Spring Boot, Django, Node.js, Next.js, Bootstrap, Tailwind, Flask, Agile, CI/CD, Jira, Confluence, Amazon Web Services (AWS), Azure DevOps, Docker, Unix