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, Operating Systems

SKILLS

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

WORK EXPERIENCE

Software Engineering Intern   May 2024 - Present
LACERA   Los Angeles, CA

- Developed 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.
- Automated dynamic email and text message confirmations for two-factor authentication and account activity notifications for **188,000+ registered LACERA members** using **Twilio and SendGrid APIs**.
- Refactored code and documentation for SSO automation and application monitoring scripts, cutting **parallel test execution time by 32%** and **debugging time by 12%**.

Software Engineering Intern   May 2023 - Aug 2023
Hexfork   Remote

- Designed **5+ responsive React.js components**, such as navbars and dropdowns, into Hexfork's website, resulting in a **20% increase in website engagement** along with improved site usability and navigation.
- Implemented efficient client-side routing using the **Next.js** framework, which **reduced 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, such as 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.
- Collaborated closely with **1 product manager and 4 UX designers** in an **agile** team in order 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 help them with physics assignments & exam preparation.
- Elevated students' conceptual understanding by using different explanations & visualizing problems step-by-step with diagrams, resulting in scores that **exceeded the 80% class average**.

PROJECTS

Google Calendar Task Management App | [Github]   Nov 2023

- Led a team of **6+ students** to implement a **full-stack mobile app** called Productiv that allows 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 **React Native state and prop** concepts to provide users with smooth transitions between pages.

OCR: Optical Character Recognition | [Github]   Nov 2022

- Developed a **C++ program** that uses **polymorphism & inheritance** to identify numbers from 10+ images without using machine learning libraries while accounting for different fonts and styles.
- Optimized the **breadth-first search algorithm** in order to large pixel clusters forming numerical patterns.
- 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.