

Nicholas Firme

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EDUCATION

California Polytechnic State University, San Luis Obispo

Bachelor of Science in Software Engineering, June 2022 (3.33 GPA)

Relevant Coursework:

Data Structures, Object-Oriented Programming and Design, Design & Analysis of Algorithms, Systems Programming, Programming Languages, User-Centered Interface Design, Individual Software Design & Development, Database Modeling, Design, & Implementation, Computer Security, Distributed Computing

TECHNICAL SKILLS

- **Languages:** Python, Java, C, SQL
- **Web Development:** HTML/CSS, JavaScript, TypeScript, Node/Express, ReactJS, React Native
- **Technologies:** Git, MySQL, MongoDB, Apache Spark, TravisCI, AWS (Lambda/DynamoDB/CDK), Google Firebase

SOFTWARE ENGINEERING EXPERIENCE

Cal Poly Beach Volleyball App | Senior Project January 2022 - Present

- Created a React Native application for Cal Poly's Beach Volleyball team to analyze hitting/blocking patterns
- Built an offline-first user experience by integrating MongoDB Realm to persist and synchronize data
- Designed and implemented an heatmap component to visualize player data in real-time

Amazon Connect Project | Capstone (Team Project) September 2021 - June 2022

- Architected a system of AWS services including Lambda, DynamoDB, API Gateway to allow Amazon Connect customers to record agents' calls and screens
- Deployed the backend infrastructure as code using AWS' Cloud Development Kit
- Built a web application using React with TypeScript to allow managers to browse video recordings

Vera | CS + Social Good (Club Project) September 2020 - June 2021

- Created a website to connect Cal Poly students with local mental health resources
- Implemented UI components in React according to design specifications from Figma documents
- Integrated a MongoDB database to display resources via an Express backend server

EXTRACURRICULARS / LEADERSHIP

Cal Poly CS + Social Good | Workshop Director & Project Co-Lead September 2021 - June 2022

- Organized and led introductory workshops to teach new club members about web development
- Managed project progress by leading standup and sprint planning meetings following
- Ensured UI components met quality standards through testing and review of team members' code