PETER KALLOS

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EDUCATION

CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISPO — San Luis Obispo, CA
B.S. in Computer Science — Sep 2023 - June 2025
Cumulative GPA: 3.904; Dean's List 2023-2024
Relevant Coursework: Software Engineering, Design and Analysis of Algorithms, Database Systems, Computer Security, Systems Programming, Theory of Computation, Project-Based Object-Oriented Programming and Design

ANTELOPE VALLEY COLLEGE — Lancaster, CA
A.S. in Computer Science - Mathematics - Physics — Aug 2021 - May 2023
Cumulative GPA: 4.0; Summa cum laude; President's List 2021-2023; Subject Area Award for Computer Science
Relevant Coursework: Java Programming & Algorithms, C/C++ Programming, Data Structures, Assembly Language & Computer Architecture, Discrete Mathematics, Linear Algebra, Calculus, Physics

PROJECTS

NOTE TAKING WEB APP - TEAM MEMBER — Sep 2024 - Dec 2024
- Built a full-stack note taking web app, following software engineering best practices, with a team of three student developers using Express.js/MongoDB for the backend and Vite/React for the frontend
- Included UI prototype/storyboard based on user stories, data model diagrams, secure authentication/password encryption, a CI/CD pipeline with Azure, end-to-end testing with Cypress, a RESTful API on the backend, and a synced frontend and backend
- Followed Agile development practices with sprint-based delivery, used GitHub issues for code reviews, and a Kanban project board for task organization

CALIFORNIA TRAFFIC MOBILE APP - SOLO DEVELOPER — July 2024 - August 2024
- Developed a full-stack, map-based app for Android and iOS with React Native/Expo and Typescript using traffic data provided by Caltrans and CHP for up-to-date information on California's highways
- Profiled the app with React Developer Tools and optimized performance via component memoization. Used Google Maps SDK and React Native libraries for real-time user location and marker clustering. Integrated AsyncStorage and React's Context API for persistent user preferences and state management when setting theme
- Created custom components for permissions and support modals, app theme, and traffic details pages. Designed custom UI elements including icons, map styles, and buttons

TASK MANAGER API - TEAM MEMBER — May 2024 - June 2024
- Developed an end-to-end, RESTful API for general task management with a team of three student developers
- Implemented concurrency control to ensure transaction isolation and carried out performance tuning, improving query execution times by 90%
- Designed comprehensive example flows and user stories, and created an ER diagram for the database schema

INTERACTIVE CAMPUS MAP MOBILE APP - TEAM LEAD — Sep 2022 - May 2023
- Led a team of eight student developers in creating a location-based, interactive map app. Distributed tasks using Trello, and utilized Android Studio/GitHub for creation/collaboration; resulted in a successful closed alpha launch and funding from Northrop Grumman for $10,000
- Integrated Google Maps SDK and used its FusedLocationProvider API with Android's Location API for displaying the user's real-time location
- Created filters for and dynamically revealed POIs based on user proximity. Determined nearest parking from user and parking lot coordinates, implemented persistent data storage for saving parking locations with Flutter's SharedPreferences plugin. Migrated codebase from native Android to Flutter app for iOS compatibility

SKILLS

Languages: Typescript (TSX), Javascript (JSX), Java, Python, C, C++, PostgreSQL, HTML, CSS, XML
Developer Tools: React, Vite, Express.js, MongoDB, Expo, React Developer Tools, Google Cloud/Play Console, Supabase, Docker, Android Studio, Android/Google Maps SDK, Git/GitHub, VS Code, Trello, Figma
Fundamentals: Profiling, OOP, Algorithm Design, Data Structures, Unix, Unit Testing, Debugging