Kenneth Tiet

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EDUCATION

University of Southern California — Los Angeles, CA
Bachelor of Science in Computer Science — *May 2023*
- Cumulative GPA: 3.55/4.0
- Relevant Coursework: Software Engineering, Data Structures & Algorithms, Computer Systems, Networking

TECHNICAL SKILLS

Languages: Python, C++, JavaScript/TypeScript, Java, SQL, HTML/CSS
Frameworks: React, Bootstrap, Django, Express.js, Node.js, Serverless Framework
Developer Tools: Amazon Web Services (AWS), GitHub, Visual Studio Code, Docker, Jira, Postman
Databases: PostgreSQL, AWS DynamoDB, MySQL, Google Firebase

EXPERIENCE

Backend Software Engineer — Jun 2023 – Present
USC Haptics Robotics and Virtual Interaction Lab - OdditDB Team — *Los Angeles, CA*
- Developed back-end services for an auditing and data web application to enhance transparency of academic research data, presented abstract proposal at 2023 Southern California Robotics Symposium
- Reduced web app deployment time by 10% and improved reliability by 15% by optimizing CI/CD pipelines
- Mitigated runtime errors by 30% by leading conversion of codebase from JavaScript to TypeScript
- Improved web app's reliability by approximately 20% through reduction of technical debt and refactoring efforts
- Provided instruction for 20+ beta testers by crafting easy-to-follow documentation pages using Markdown script

Software Intern — May 2022 – Aug 2022
RoviSys — *Thousand Oaks, CA*
- Saved company $300,000 by successfully identifying optimization opportunities and leveraging scripting
- Reduced 7,800 hours annually from projects by designing and implementing industry software applications
- Achieved 50% reduction in onboarding time and 35% increase in tool adoption by creating and maintaining detailed documentation for newly developed software tools

PROJECTS

NoteIt | *Python, Django, React, PostgreSQL* — July 2024
- Developed a full-stack productivity tool with functional features for note organization and retrieval, using Django
- Minimized code-base by approx. 25% by implementing RESTful APIs from the Django REST Framework
- Enabled storage of notes up to 8 GB on an online database, using PostgreSQL and Digital Ocean

SuperChat | *React, Firebase* — August 2023
- Built a real-time chat application, facilitating instant messaging for up to 100+ users, using React & Firebase
- Reduced sign-in time by 66% and code-base by 20% using Google Sign-In and Firebase authentication
- Improved message latency by 30% by utilizing cloud syncing feature from Firebase Realtime Database

EventMe | *Android, Java, Google Firebase, JUnit, Espresso* — November 2022
- Created an event-registration Android mobile app using Java, Android SDK, & Firebase database
- Mitigated frequency of callbacks by 20% by redesigning database schema and restructuring database queries
- Diminished back-end errors by 40% and increased error visibility by implementing robust testing & error handling

Bankify | *Linux, Apache, MySQL, Perl* — November 2022
- Launched a mock banking app, providing service for 50+ users and fulfilling 40,000+ requests, using LAMP Stack
- Decreased data access times by 35% by designing an effective database schema and restructuring queries
- Protected against 100+ brute force and rainbow table attacks, using salt-hashing password protection method

AWARDS AND LEADERSHIP

PCC Dean's List x 4, PCC Scholar-Athlete, UCLA CCCP Scholar

HOBBIES & EXTRACURRICULARS

USC Swim, USC Cycling, USC Association for Computing Machinery, PCC Swim, SoCal Pen Collectors