Kenneth Tiet

626-400-9263 | tietkenneth@gmail.com | linkedin.com/in/kennethtiet | github.com/kennethtiet | kennethtiet.github.com

EDUCATION

University of Southern California — Los Angeles, CA
Bachelor of Science in Computer Science — *May 2023*
- 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, Postman, Android
Databases: PostgreSQL, AWS DynamoDB, MySQL, Google Firebase
Software Paradigms: CI/CD, Test Driven Development, SDLC, Agile, Unit Testing, Infrastructure as Code

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

Robotics Instructor — Feb 2024 – Present
Institute of Arts, Music & Science — *Bellflower, CA*
- Identified and addressed individual learning needs of 3+ elementary students through robotics education
- Taught students programming for robotics projects, leading to a 30% time reduction to complete projects
- Maintained student engagement through interactive activities, leading to higher enthusiasm and participation

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 by developing and implementing software applications in Python and XML
- Wrote and maintained comprehensive documentation for newly developed software tools, improving on-boarding efficiency and contributing to increased tool adoption

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 utilizing Django REST Framework for RESTful API Development
- Enabled storage of notes up to 8 GB on an online database, using PostgreSQL and Digital Ocean

SuperChat | *React, Firebase* — Aug 2023
- Built a real-time chat application, facilitating instant messaging for up to 100+ users, using React & Firebase
- Reduced sign-in time and code-base by 20% using Google Sign-In and Firebase authentication
- Improved message latency time by 30% by using Firebase Realtime Database over traditional polling methods

EventMe | *Android, Java, Google Firebase, JUnit, Espresso* — Nov 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
- Identified and fixed 25% of errors with effective testing and error handling, enhancing overall software reliability

HOBBIES & INTERESTS

Swim, Cycling, Reading, Fountain Pens, Programming, Space Exploration, Robotics