# Kenneth Tiet

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## EDUCATION

**University of Southern California** — Los Angeles, CA
*Bachelor of Science in Computer Science* — *Aug. 2020 – May 2023*
- Cumulative GPA: 3.55/4.0
- Relevant Coursework: Software Engineering, Data Structures & Algorithms, Computer Systems, Networking

## EXPERIENCE

**Backend Software Engineer** — June 2023 – Present
*USC Haptics Robotics and Virtual Interaction Lab* — *Los Angeles, CA*
- Developed server-side code for an auditing and data web application to enhance transparency of academic research data, utilizing Express.js, TypeScript/JavaScript, Node.js, AWS, and Serverless Framework
- Reduced web app deployment time by 10% and improved reliability by 15% by optimizing CI/CD pipelines
- Led conversion of codebase from JavaScript to TypeScript, resulting in a 30% reduction in runtime errors
- Improved web app's reliability by approximately 20% through reduction of technical debt and refactoring efforts
- Created 8 comprehensive user-friendly pages for documentation enabling easy installation and development
- Utilized Agile methods in a team of 5 engineers, completing 12 sprints and delivering timely software updates

**Software Intern** — May 2022 – August 2022
*RoviSys* — *Thousand Oaks, CA*
- Saved company $300,000 annually by successfully identifying optimization opportunities and leveraging scripting to increase process efficiencies in Python and Excel VBA
- Reduced 7,800 hours annually from projects by designing and implementing industry software applications to automate extraction, transformation, and loading of manufacturing systems information
- 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
- Built a full-stack productivity application with Django & PostgreSQL, enabling users to create and manage notes
- Reduced approximately 25% of code complexity by using the Django REST framework to implement RESTful APIs
- Implemented RESTful backend server using PostgreSQL, enabing notes to be stored in an online database

**SuperChat** | *React, Firebase* — August 2023
- Developed a real-time chat application using React & Firebase, facilitating instant messaging in a global group chat
- Streamlined login by 50% with Google Sign-In using Firebase Auth, reducing authentication and sign-in time
- Utilized Firebase Realtime Database to enable instant chat updates, achieving a 30% reduction in message latency

**EventMe** | *Android, Java, Google Firebase, JUnit, Espresso* — November 2022
- Designed and implemented backend services for an event registration Android mobile app using Java & Firebase
- Achieved 20% reduction in callback latency by improving database schema and reducing database callbacks
- Implemented robust error handling, leading to a 40% decrease in backend errors and facilitating easier debugging

**Bankify** | *Linux, Apache, MySQL, Perl* — November 2022
- Developed mock banking web application with LAMP Stack, providing online banking services for users
- Fulfilled over 40,000+ requests by implementing server-side logic for user authentication and data management
- Improved data access times by 35% by designing an effective database schema, optimizing query performance

## TECHNICAL SKILLS

**Languages**: Python, C++, Java, TypeScript, JavaScript, 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, Wireshark
**Databases**: PostgreSQL, AWS DynamoDB, MySQL, Google Firebase
**IT**: Jira SM, Active Directory, MacOS, Windows

## HOBBIES & EXTRACURRICULARS

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