Ken Taniguchi

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Full Stack Engineer with experience in React, FastAPI, and cloud technologies, adept at building scalable and user-friendly web applications. Passionate about leveraging AI to enhance user experiences and seeking a challenging role in a dynamic environment.

EDUCATION

University of California Davis, Davis   March 2023

Bachelor of Science in Computer Science

SKILLS

Languages: Python, JavaScript, TypeScript, HTML, CSS, SQL, Java, C++, C, Go, Dart; Front-End: React.js, ReactNative; Back-End: Django, FastAPI, Nextjs, Node.js, SpringBoot; Databases: PostgreSQL, Oracle; Cloud: AWS Lambda, AWS S3, Cloudflare, Supabase, Firebase; AI/ML: Machine Learning, LLMs, Langchain; Tools: Git, Docker; OS: MacOS, WindowsOS, CentOS, Ubuntu

EXPERIENCE

Full Stack Engineer, Trellis Energy   July 2023 - Present

- **Led the integration of an AI-powered chatbot into an existing SaaS platform**, originating from a personal project demonstration. This chatbot leverages OpenAI's GPT-4o and LlamaIndex to enable efficient information extraction from complex, table-heavy PDF documents used in marketing analysis, streamlining data retrieval processes.
- **Spearheaded the modernization of the company's front-end architecture** by introducing React and creating a reusable UI component library, transitioning from a legacy Spring Boot and jQuery system. This involved developing common UI components package, including complex grid layouts, using Ant Design and managing state with Redux.
- Implemented a build process to generate optimized, bundled React components for integration within existing Spring Boot (JSP) server-side rendered pages, reducing bundle size by 85% and improving page load times.

Founder & Full Stack Engineer Freelance, Benri LLC.   July 2024 - Present

- **VoiceMemoir:** A voice-based personal diary app using scheduled calls and AI for easy journaling.
  Description: Enables hands-free journaling via scheduled phone calls using Twilio. Uses OpenAI's real-time API and gpt-4o-mini for multilingual speech-to-text and an LLM for grammar/punctuation suggestions, preserving user tone. Includes a text editor for manual entry.
  Key Technologies: React Native (iOS/Android), OpenAI API (Realtime API), Twilio, Python/FastAPI, Cloudflare R2, Supabase (DB & Auth)
- **Paddy:** Mobile app connecting users needing menstrual products with nearby helpers.
  Description: Facilitates discreet assistance during menstrual emergencies. Users request products and share location temporarily (max 24 hours); nearby users respond and coordinate via in-app chat (messages auto-delete on both server and device).
  Key Technologies: Flutter (iOS/Android), Google Maps Platform, Firebase Realtime Database, Firebase Functions (Serverless), Firebase Auth

Full Stack Engineer Freelance, Bienfait Inc.   January 2022 - January 2023

- Collaborated as a full-stack engineer with a team of 10+ engineers in an agile environment, contributing to the development of a speech-writing AI platform focused on generating condolence speeches for funerals.
- Achieved a 500% performance improvement by optimizing PostgreSQL database query calls through techniques such as indexing, and by implementing asynchronous database insertions using Python's asyncio library.
- Increased file upload capacity by a factor of 10 and reduced server load by transitioning from a server-mediated file upload process to direct uploads to AWS S3.
- Mentored two junior team members in Django development, providing guidance on best practices and contributing to their technical growth.
- Contributed to all aspects of the product's development, from initial coding to ongoing maintenance, leveraging both front-end (JavaScript) and back-end (Django, Python) technologies.

PROJECT / ACTIVITY

Curation Media (Twitter Client), LLM-Powered RAG Application, Stock Prediction Model, Pop-up Cafe.