

# Erik Chan

erikchan1010@gmail.com | [LinkedIn](#) | [GitHub](#) | (909) 438-1726 | San Jose, California

## WORK EXPERIENCE

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**Stackline** | Seattle, WA

**July 2024 - Present**

**Full Stack Software Engineer** | AWS Lambda, AWS Redshift, AWS DynamoDB, Node.js, React, React Native, C#

- Created endpoints on the backend to support dynamic theming and content delivery to our brand builder
- Designed and architected data patterns to store and manage roles and configuration settings for “Brand Store,” an enclosed brand ecosystem with analytics, tracking, brand management, and data analysis features
- Developed proprietary “third party” checkout software / systems ui and backend functionality to deliver a plug and play checkout experience to our business partners with 3,000 checkouts/client

**Breaking Hits** | Los Angeles, CA

**Oct 2023 – July 2024**

**Lead Machine Learning / Lead Full Stack Engineer** | Python, Tensorflow, PyTorch, NumPy, Pandas, SKLearn

- Led engineering team in developing mobile applications with flutter and migration of PHP-based applications to Node.js and Vue.js for enhanced performance and scalability.
- Spearheaded development of backend systems in Node.js to handle generative ai personas to achieve 40% increase in user engagement and a 25% uplift in music streaming revenue
- Utilized Wav2Vec and BERT to develop neural network for a multiple classification model that extracts features to enhance user content delivery by 80% and improve artist scouting for labels decreasing scouting costs by 70%
- Engineered backend API for data processing, database storage, and algorithm implementations for Artificial Intelligence

**Edenspiekermann** | Los Angeles, CA

**Mar 2023 – Sept 2023**

**Full Stack Software Engineer** | Typescript, Java, C++, Kotlin, React Native, Next.js, AWS, GraphQL, Firebase

- Led development of Next.js applications for banking and biotech companies, resulting in 50% improvement in APM's over existing applications
- Created components/utilities software libraries in Typescript and CSS, leading to 20% reduction in bounce rates and latency
- Led integration of API services into web applications, ensuring seamless functionality, resulting in 40% increase in APM's
- Collaborated with Bloomberg's engineering team to architect to integrating podcasting services into over 5 million cars

## PROJECTS / Libraries

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**EBAY 2023 ML Competition** | KERAS, Bidirectional RNNs, Hugging Face Transformers, NLP

- Built a NER (Named Entity Recognition) model to label German EBAY shoe listing titles with an accuracy of 72%

**[LLM Generative AI model with Generative Voice Model](#)** | Google Gemini, Google Cloud Platform, Next.js, Node.js, ElevenLabs

- Tuned Google Gemini's base model to accept different personality based contexts to create a reprogrammable LLM model
- Created custom Web Audio handler to handle playing audio packets received from web socket live on the frontend

**Vite Plugin:** <https://www.npmjs.com/package/vite-default-opt>

## CERTIFICATIONS

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**Coachable** | Python, Data Structures & Algorithms Certification

**Aug 2022 – Dec 2022**

- Intensive career accelerator that enhances software engineering skills through mentorship from experienced SWEs

## SKILLS

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**Expert:** React.js, Next.js, Node.js, HTML, CSS

**Advanced:** Javascript, Python, Typescript, Vue.js, Docker, Google Cloud Platform (GCP), Rest API's, Git, AWS, React Native

**Intermediate:** Kotlin, Java, C++, Tensorflow, Pytorch, SQL, Rust, C#, SQL, GraphQL

## EDUCATION

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**University of California, Riverside** | GPA: 3.90

**Sept 2018 – Jun 2022**