Bill Huynh

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Education

California State University, Sacramento June 2024
Bachelor of Science in Computer Engineering *Sacramento, CA*

Technical Skills

Languages: JavaScript, TypeScript, Java, Python, SQL, C, C++, HTML, CSS
Frontend: React, Next.js, Tailwind CSS
Backend & APIs: Node.js, Express, Spring Boot, Drizzle ORM
Cloud & Infrastructure: AWS (EC2, Lambda, S3, API Gateway, CloudFront), Supabase, Vercel, Docker

Projects

Yaps: AI Powered Learning Platform | *Next.js, TypeScript, Express, Supabase, Drizzle, AWS* May 2025 – Present

- Engineered a full-stack learning SaaS that transforms long-form educational media into podcasts.
- Built end-to-end media-processing pipeline to transcribe, summarize, and automating podcast creation.
- Migrated backend to event-driven architecture using **Inngest**, eliminating request timeouts and enabling processing of **60+** minute videos by decoupling AI workflow.
- Developed gamified learning system with XP tracking, progress ranks, and spaced-repetition flashcards.
- Reduced LLM summarization cost by **45%** with semantic chunking and prompt tuning.

TFT-dle | *TypeScript, React, Python, Selenium, AWS Lambda/CloudFront, Supabase* June 2024 – April 2025

- Deployed a character guessing game that supports **100+** daily active users and **200,000+** monthly requests.
- Implemented a fully responsive UI dynamic input handling, animated feedback panels, and real-time updates,
- Optimized frontend state and backend APIs to achieve **<1s** page load times and **99.9%** uptime..
- Automated a scheduled serverless scraping pipeline using **Python**, **Selenium**, and **AWS Lambda** to process **2000+** images, **150+** videos from live TFT datasets.

Experience

Applied AI Researcher May 2023 – Aug 2023
Texas A&M University Kingsville *Kingsville, TX*

- Awarded **Best Paper** at **IEEE PICOM 2025** for wireless sensor network optimization research.
- Improved wireless sensor network coverage efficiency by **40%** by developing an optimized algorithm.
- Evaluated different AI approaches (genetic algorithm, binary ant, MARL) by conducting performance tests.
- Collaborated with faculty and peers to validate findings through **1,000+** simulations.
- Collaborated in a cross-functional team of researchers and engineers and delivered weekly code reviews.

Data Structures and Algorithms Club Dec 2022 - Feb 2024
California State University, Sacramento *Sacramento, CA*

- Mentored 15 peers on advanced algorithmic problem-solving through weekly coding challenges.
- Co-led workshops covering data structures, system design, and performance optimizations.