Billie Paul Heidelberg Jr

Software Engineer & Educator

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Full Stack Engineer with 8+ years of experience designing and scaling web applications. Skilled in React, Node.js, and AWS with a proven ability to architect reliable systems, mentor developers, and deliver high-impact results.

TECHNICAL SKILLS

Frontend: React, Next.js, React Native, TypeScript, Tailwind CSS, Responsive Design
Backend & Databases: Node.js, Express, Supabase, PostgreSQL, Redis, MongoDB, GraphQL, REST APIs
Cloud & DevOps: AWS (Lambda, CloudFront, S3, CloudFormation, SQS), Docker, CI/CD
Additional: Python, Groovy, ETL Pipelines, Data Modeling, Unit Testing

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Work Experience

Full Stack Engineer (Freelance) | Simmr   July 2023 – Present
A social platform serving the non-monogamous and polyamorous communities

- Engineered a scalable discovery platform serving 2,000+ users with **React**, **TypeScript**, **Node.js**, **Apollo GraphQL**, and **Hasura GraphQL Engine** on AWS.
- Built a global image caching pipeline using Sharp and S3, reducing bandwidth costs and improving load times by 40%.
- Developed **event-driven architecture** with **Hasura event triggers** and **asynchronous job workers** for real-time notifications.
- Integrated Twilio, Stripe, Mixpanel, and AWS SES for communication, payments, and analytics insights.
- Managed infrastructure using the **Serverless Framework**, **Docker**, and **PostgreSQL**, automating migrations and deployment provisioning.

Founder & Full Stack Engineer (Freelance) | Smart Trader   April 2025 – Present
AI-powered trading journal SaaS for institutional and retail traders

- Architected and launched a production SaaS platform with **Next.js 15, React 19, TypeScript, and Supabase** to enable real-time trade analysis and journaling.
- Integrated **GPT-4 Turbo** to generate contextual trade performance reviews across six dimensions (execution, psychology, etc.).
- Built secure data architecture with **Supabase Auth (38+ RLS policies), private storage, and normalized PostgreSQL schema with triggers.**
- Developed interactive candlestick charts using **TradingView** and optimized frontend performance with **React Server Components and caching.**
- Deployed to **Vercel with automated CI/CD pipelines and zero-downtime release processe**s.

Software Engineer and Technical Trainer | InvestCloud Inc.   July 2018 – June 2025
Leading provider of flexible and fully integrated digital applets for financial services

- Promoted through four roles (Jr. Front-End → Front-End → Integration Developer → Technical Trainer) over seven years, reflecting consistent performance and growth.

- **Built and maintained ETL pipelines, APIs, and financial data models using PostgreSQL, MySQL, Python, and Groovy - improving processing speed by 25%.**
- Automated data workflows and created internal tools, reducing manual ops and integration setup time by 40%.
- Led training for 100+ developers globally on debugging, integration, and best practices, boosting team efficiency by 30%.
- Contributed to system-wide improvements in schema design, API standards, and UI component consistency.

CTO & Co-Founder (Freelance) | TOLO   October 2022 – January 2025
A discovery platform for underground artists promoting content through fair, engagement-based algorithms.

- **Led end-to-end development of a mobile content discovery app using React Native (Expo), TypeScript, and Supabase (PostgreSQL, Auth, Storage).**
- Architected **Supabase** backend with real-time subscriptions, secure auth, role-based access, and media upload infrastructure.
- Built a viral content ranking algorithm and trending feed logic to drive fair, engagement-based content promotion.
- Improved feed performance by 40% through caching with SWR and Supabase helpers, reducing media load times.
- **Directed sprint planning, code reviews, and iOS/Android deployments using Expo Application Services (EAS).**

Educator & Mentor (Part-Time) | General Assembly   October 2020 – Present
Led full-time software engineering bootcamps, training aspiring developers in modern full-stack web development.

- **Instructed 150+ students in full-stack development using React, Node.js, Express, MongoDB, Python, and Django.**
- Designed project-based lessons emphasizing scalability and real-world application.
- Mentored students 1-on-1 through portfolio projects, technical interviews, and career transitions.
- Collaborated with instructional teams to evolve curriculum content and ensure alignment with industry standards.

Other Experience

Jr Front End Developer | BBDO Los Angeles   October 2017 – July 2018
 A major global advertising network known for award-winning campaigns.

- Improved dashboard navigation and performance using React; cut load times by 25%.

Front End Developer (Contract) | Airbnb   June 2017 – August 2017
Renowned for its global platform for booking and listing accommodations.

- Built media-rich campaign sites using JavaScript and HTML/CSS for national brands.

EDUCATION
General Assembly | **Web Development Immersive** | **Santa Monica, CA**   January – April 2017