Billie Paul Heidelberg Jr
Software Engineer & Educator

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Experienced Full Stack Developer with 8+ years building scalable web applications and leading technical initiatives. Proven track record developing production-grade platforms using React, Node.js, and AWS cloud infrastructure. Passionate about mission-driven projects, collaborative development, and delivering meaningful impact through technology.

TECHNICAL SKILLS

Core Technologies: JavaScript, Node.js, React.js, Next.js, AWS Lambda, PostgreSQL (RDS), MySQL, Redis, SQS, CloudFormation
Frontend: React.js, React Native, Next.js, Tailwind CSS, Responsive Design
Backend & Cloud: Node.js, Express, AWS (Lambda, S3, CloudFront, CloudFormation, SQS), Supabase Edge Functions
Databases: PostgreSQL (RDS), MySQL, MongoDB (NoSQL), Redis (caching)
Additional: Python, Java, Groovy, Docker, ETL Processes, RESTful APIs, GraphQL, CI/CD

Work Experience

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

- Developed a scalable discovery platform serving thousands of users using React.js, Node.js, and AWS infrastructure
- Implemented AWS Lambda@Edge functions with CloudFormation templates for SEO optimization and media previews
- Built a global image caching system, reducing bandwidth usage and improving load times across the platform
- Utilized SQS for asynchronous task processing and Redis for high-performance caching strategies
- Balanced 80% new feature development with 20% platform maintenance and support
- Applied defensive programming principles and error boundaries to ensure platform resilience

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 multiple roles: Jr Front End Developer → Front End Developer → Integration Developer → Technical Trainer

- Built and maintained ETL pipelines for financial data transformation using PostgreSQL (RDS), MySQL, Python, and Groovy
- Developed RESTful APIs and designed relational database models for enterprise-scale financial applications
- Created modular UI components for client-facing dashboards and enhanced accessibility across the digital suite
- Trained development teams on technical best practices, integration workflows, and debugging strategies
- Collaborated with QA and support teams to resolve production-level data integration issues and platform optimization
- Contributed to database schema design and internal design system standardization
- Implemented batch processing systems and automated workflows for high-volume financial data

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

- Architected and deployed AI-powered trading journal SaaS using React, Next.js, Supabase, and AWS
- Built scalable APIs with Supabase Edge Functions, processing GPT-based analysis for real-time insights
- Implemented Redis caching strategies for optimal trade data rendering and performance
- Designed a SQS based queuing system for reliable message delivery and task processing
- Developed custom dashboard components for performance tracking and behavioral analytics

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

- Led full-stack development of content discovery platform using React, Node.js, and PostgreSQL
- Managed AWS infrastructure as code with CloudFormation, provisioning S3 buckets, and Lambda integrations
- Built engagement-driven content feeds with Redis caching layers for optimal performance
- Directed product strategy and sprint execution in a lean startup environment
- Collaborated cross-functionally to translate requirements into scalable technical solutions

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 immersive coding bootcamps focused on React, Node.js, Express, MongoDB, Python, and Django development.
- Mentored 150+ students through hands-on projects, guiding them from beginner to job-ready software engineers.
- Delivered workshops on scalable architecture design, API development with React and Express, backend services with Node.js and Django, and deployment workflows (CI/CD).
- Collaborated with fellow instructors to evolve curriculum content and align teaching with current industry practices.
- Provided individualized career coaching, resume reviews, and technical interview preparation to help students successfully transition into tech roles.

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

- Developed interactive campaign pages using JavaScript, HTML, and CSS
- Collaborated with creative teams to deliver responsive, media-rich digital experiences
- Implemented cross-browser compatible solutions for high-traffic advertising campaigns

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

- Refactored internal tool modules, improving usability and maintaining design consistency
- Enhanced navigation flow and layout architecture for partner-facing applications
- Contributed to sprint rollouts and cross-functional QA processes

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EDUCATION

General Assembly | Web Development Immersive | Jan – Apr 2017 | Santa Monica, CA