

Tim Shih

✉ huaienshih@gmail.com ☎ +1(672)952-5959 📍 Burnaby, BC
🔗 linkedin.com/in/huai-en-shih-2539031b3 🌐 thdg.site/

SUMMARY

Full-Stack Engineer with over 8 years of tech industry experience, blending 5 years of backend architecture and system design with 3+ years of intensive hands-on full-stack development. Deep expertise in the technology stack: TypeScript, JavaScript, React, Next.js, Node.js, and SQL (PostgreSQL). Proven track record of architecting highly scalable enterprise API integrations, deploying robust SaaS platforms, and implementing LLM-based agents in production. Adept at translating complex business requirements into maintainable, security-first software solutions while ensuring optimal system flexibility and user-centric design.

WORK EXPERIENCE

Founder & Lead Software Engineer THDG LLC

05/2024 — Present

- Architected and deployed highly scalable production SaaS platforms from concept to launch, including Offery (monetized via Stripe integration) and WedSnap (published on the App Store), utilizing TypeScript, React, Next.js, Node.js, and PostgreSQL.

Offery: <https://offery.thdg.site/en>

WedSnap: <https://wedsnap.thdg.site/>

- Engineered generative AI workflows and implemented LLM-based agents in production, accelerating feature delivery by treating AI as a collaborative engineering component while ensuring strict security and maintainability standards.
- Designed complex user authentication and custom Role-Based Access Control (RBAC) to ensure strict data privacy and secure endpoints across web and mobile applications, balancing system flexibility with performance.
- Optimized complex state management and real-time database queries, ensuring performant execution and seamless data synchronization across end-user applications.

Integration Software Engineer Evolution (NASDAQ: EVO)

11/2024 — 04/2026

- Orchestrated complex RESTful API architecture and B2B integrations for over 40 enterprise-level client applications annually, providing technical guidance, executing test scripts, and ensuring smooth transitions into production.
- Engineered performant Node.js backend systems integrating internal services, Telegram APIs, and Google APIs to automate extensive data logging and customized notification workflows, eliminating over 40 hours of manual operational overhead monthly.
- Led backend log analysis and debugged intricate cross-system issues for approximately 150 high-traffic enterprise accounts, collaborating closely with client technical teams to significantly reduce resolution time for critical bottlenecks.
- Enforced stringent API access controls, token-based authentication protocols, and secure endpoint management, transforming user and partner feedback into reliable technical improvements.

- Spearheaded the ground-up development of an internal enterprise management system (ERP), building scalable backend data models and secure RESTful APIs using Node.js, Express, and MongoDB.
- Designed comprehensive Role-Based Access Control (RBAC) architectures and integrated third-party tools to ensure system reliability and secure cross-departmental operations.
- Championed engineering excellence by authoring comprehensive unit tests and establishing systematic logging workflows to monitor application health and ensure highly reliable production deployments.
- Collaborated cross-functionally across departments to proactively gather requirements, ensuring technical architecture aligned precisely with complex user and business needs.

- Maintained and developed new features for a mission-critical, large-scale store-to-store logistics system, supporting a live production environment with over 100,000 active users.
- Architected scalable data workflows and collaborated seamlessly with the infrastructure team to evaluate system capacity, optimize resource usage, and define effective deployment strategies.

- Designed, developed, and validated robust B2B Hotel Property Management Systems (PMS) from scratch, driving the system architecture that successfully onboarded and supported over 150 enterprise clients.
- Managed the end-to-end SDLC using Scrum Agile methodologies and Test-Driven Development (TDD) practices, encompassing backend implementation, API design, and rigorous QA validation.
- Acted as a core technical mediator during discrepancies, leveraging strong communication skills to resolve conflicts, maintain team cohesion, and ensure smooth project execution.

EDUCATION

SKILLS

TypeScript, JavaScript, React.js, Next.js, Node.js, Express.js, SQL, PostgreSQL, Python, MongoDB, AWS, Vercel, Serverless Architecture, Docker, CI/CD Fundamentals, System Design, Data Pipelines, LLM-based Agents, Generative AI Workflows, Prompt Engineering, Secure API Endpoints, RESTful APIs, RBAC, Git, Agile/Scrum