

# Haitian Hao

[hhao08.com](http://hhao08.com) | [hait.hhao@gmail.com](mailto:hait.hhao@gmail.com)

## EXPERIENCE

### Back End Developer | Baanyan Software Services

08/2023 – Present

- Led the integration of a sophisticated **Inventory Management System (IMS)** with an existing e-commerce platform, using **Java Spring Boot** for backend development, resulting in real-time inventory updates, enhancing customer experience and reducing the risk of overselling.
- Developed **APIs** for **seamless** order fulfillment and shipping integration, ensuring efficient processing of e-commerce orders. This included generating packing lists, invoices, and integrating with shipping carriers using **RESTful** services.
- Worked closely with the frontend team, using **React**, to ensure seamless interaction between the e-commerce platform and the IMS, providing a cohesive user experience and supporting a significant increase in online sales efficiency.
- Led the migration from monolithic to **microservices architecture** using **Docker** and **Kubernetes**, involving **MongoDB** for database, enhancing **system resilience and scalability**, and facilitating easier **maintenance**.

### Full Stack Software Engineer | Anbang Insurance Group

01/2023 - 08/2023

- Designed and implemented innovative software solutions to streamline **policy management** and **claims processing**, enhancing operational efficiency by 30%.
- Led the development of a robust customer portal with an intuitive interface, utilizing **PHP** for server-side logic and integrating **RESTful API** services for seamless data exchange.
- Enhanced user experience by implementing a **responsive front-end** with **React**, and streamlined backend operations using **Node.js** and **Express**, supported by comprehensive REST API endpoints.
- Deployed continuous integration/continuous deployment (**CI/CD**) pipelines to **automate testing and deployment** phases, accelerating product delivery by 40% and ensuring high code quality.

### Software Development Engineer Intern | Amazon

05/2022 - 08/2022

- Collaborated with an elite team to engineer **scalable** software systems, leveraging **Java** and **Python** in conjunction with **AWS SDKs** for effective development within an **Agile** framework.
- Played a pivotal role in the **lifecycle** of a client-facing application, deploying it on AWS utilizing services like EC2, S3, and Lambda, and ensuring peak performance with DynamoDB's optimized indexes and efficient query patterns using tools like **AWS Data Pipeline** and **DynamoDB Streams**.
- Instrumental in fine-tuning data interactions for a 20% performance increase by utilizing DynamoDB's NoSQL structure, employing best practices in **schema design** for optimized access.

## PROJECT

### Healthcare Appointment Scheduler

- Engineered a **full-stack** solution for the management of healthcare appointments, enabling patients to book, reschedule, and cancel appointments with ease.
- Crafted the backend using **Node.js** and **Express** to handle appointment logic, user profiles, and secure communications between the server and the **MongoDB** database.
- Implemented **JWT** for **secure authentication and authorization**, ensuring patient data confidentiality and compliance with healthcare privacy standards.
- Integrated the app with cloud-based services for email and **SMS** notifications, keeping patients and healthcare providers informed and reducing no-show rates.

### Comprehensive iOS App for Personal Investment Management - "ChachinTrack"

- Conceptualized and developed 'ChachinTrack,' an innovative iOS app built with **Swift** and **SwiftUI**, designed to provide an intuitive platform for personal investment tracking and financial analysis.
- Crafted a visually rich 'Portfolio at-a-glance' dashboard using SwiftUI, offering users an **interactive experience** for monitoring investment distribution, valuation trends, and market performance.
- Implemented robust data management with **Core Data** and seamless cloud synchronization via **iCloud**, ensuring data integrity and accessibility across multiple devices.
- Utilized **Git** for **version control**, maintaining a well-documented and organized codebase, and leveraged analytics tools to gather insights for future improvements.

## EDUCATION

### New York University

Manhattan, NY

M.S. in Computer Engineering

Real-Time Embedded Systems, Advanced Machine Learning, Database Systems

### University of Maryland

College Park, MD

B.S. in Computer Science, B.S. in Mathematics

Dean's Honor List | Algorithms Analysis, Software Engineering, Advanced Data Structure, Deep Learning, Applied Linear Algebra

## SKILLS

**Programming:** Proficient in Java, Python, JavaScript, C, C#, PHP, Go; familiar with Kotlin, Swift, SwiftUI, and OCaml.

**Web Development:** Advanced experience with Spring Boot, React, Django; working knowledge of Node.js with Express.

**Cloud Computing:** Skilled with Microsoft Azure, AWS services (EC2, S3, RDS, Lambda); understanding of IaaS, PaaS, SaaS.

**Data Management & Analysis:** Competent in data manipulation with SQL, MongoDB, Core Data; data visualization with Matplotlib, Seaborn; machine learning with Scikit-Learn, TensorFlow, PyTorch.