# Bryan Jonathan

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## Education

**The Chinese University of Hong Kong, Shenzhen**                                Shenzhen, China
*Bachelor of Engineering in Computer Science and Engineering*          *Expected Graduation: May 2025*
- Major GPA: 3.486/4.000
- Received 50% tuition fee scholarship and full accommodation scholarship
- Dean's List
- Relevant Courses: Parallel Programming, Software Engineering, Computer Architecture, Database, Operating System, Design and Analysis of Algorithms, Fundamentals of Artificial Intelligence, Network Programming

## Technical Skills

**Languages**: JavaScript, TypeScript, HTML, CSS, Python, SQL
**Frameworks**: React Native, React.js, Next.js, Node.js, Express.js
**Developer Tools**: Git, Postman

## Projects

**Capstone Project: Academic Tools Website** | Next.js, Typescript, React, Shadcn, Zod, React Hook Form, Git
- Collaborating with Applied Artificial Intelligence Laboratory (AAIL) on a capstone project to develop a web platform offering AI-powered tools for educators
- Implemented multiple-choice quiz and word problem generator using NextJS, Typescript, React, and Zod
- Integrated reusable UI components from the company's design system using Shadcn and React Hook Form, ensuring design consistency and efficiency
- Participated in weekly meetings with AAIL engineers and product team to align development with project goals, gather feedback, and discuss technical solutions
- Resolved GitHub merge conflicts by reviewing code changes and coordinating with teammates

**Portfolio Stock Tracker Mobile App** | JavaScript, React-Native, Expo, Node.js, Express, PostgreSQL, Git
- Developed a full-stack mobile application using React Native and TypeScript for users to manage and track their stock and crypto investments
- Implemented and utilized RESTful APIs using Node.js and Express to handle users, portfolios, transactions, and market data
- Implemented authentication using JWT for secure access and user session management
- Integrated third-party APIs to fetch financial data and news
- Implemented efficient data fetching and caching using TanStack Query with support for pull-to-refresh to enhance user experience
- Created reusable UI components to ensure scalable and maintainable mobile code
- Optimized performance using pagination, caching, and background updates with cron jobs

**TaskTodo** | Next.js, MongoDB, Prisma, Clerk, Vercel
- Built a full-stack task management web app using Next.js, Prisma, and MongoDB
- Designed and managed server-side actions to handle task creation, updates, and deletion
- Implemented authentication and session management with Clerk for secure user access
- Deployed the application on Vercel, leveraging cloud scalability for real-time data handling

## Experience

**Undergraduate Student Teaching Fellow (USTF)**                                January 2024 – Present
*The Chinese University of Hong Kong, Shenzhen*                                *Shenzhen, China*
- Serving as USTF for CSC3180: Fundamentals of AI course
- Led weekly tutorial sessions providing explanations on course materials to help students understand key concepts
- Held weekly office hours, offering one-on-one support to students

**Member of the IT and Academics Department**                                September 2022 – June 2023
*Indonesian Student Association in China, Shenzhen Branch*                                *Shenzhen, China*
- Led a team of 10 as Head Liaison Officer for 'Shenzhen Outing,' an outdoor event with 80 participants