

Austin Nathaniel Soriano Miranda

Junior Full Stack Developer | Fresh Computer Science Graduate

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Profile

Junior Full Stack Developer with a solid foundation in modern web technologies and hands-on experience through academic, solo, and freelance projects. Proficient in the MERN stack with strong problem-solving abilities in client interaction, requirements gathering, end-to-end testing, deployment and CI/CD pipelines. Eager to contribute to a dynamic team and further develop skills.

Education

University of Wollongong / Singapore Institute of Management

Singapore

BSc in Computer Science, Major In Digital
Systems & Security

July 2021 - February 2024

- **Final Year Project:** Developed a cross-platform full stack water management system using PHP, HTML, Bootstrap, and MySQL, achieving a distinction. Utilized Agile development methodologies to manage the project.
- **Balancing Studies and Work:** Successfully balanced full-time employment with part-time studies, enhancing time management, task management, and determination.
- **High Distinction:** Multicore and GPU Programming, Fundamental Programming with Python.
- **Distinction:** Final Year Project, Database Performance Tuning, Software Development Methodologies, Intro to Web Technology, Algorithms and Data Structures, Database Systems, Programming Fundamentals, IT Project Management.

Ngee Ann Polytechnic

Singapore

Diploma in Product Design & Innovation

2014 - 2017

- **Design Excellence:** Graduated with a strong design portfolio and a silver certificate in co-curricular activities.
- **Direct Poly Admission:** Admitted via Direct Poly Admission (DPA) from O-levels, with a Certificate of Performance from the Preparatory Program.
- **Awards:** Earned a Merit Award in the Motorola Solutions Final-Year Project Awards.
- **Leadership:** Served as media president of the Canoeing club, winning a silver medal at the Singapore Canoe Federation championships.
- **Community Service:** Contributed to a disability school in Vietnam through the Youth Expedition Project.
- **Extracurricular Involvement:** Actively participated in design exhibitions, canoeing club, open houses, and alumni relations.
- **Certifications:** Certified with a 1-star kayaking proficiency and personal skills star award by the Singapore Canoe Federation.

Employment History

Design & Technology Technician

Singapore

Dulwich College Singapore

August 2019 - June 2024

- **Curriculum Support:** Prepared materials for the curriculum, ensuring equipment readiness and availability.
- **Workshop Management:** Maintained workshops, classrooms, and machinery to high health and safety standards, fostering a safe and enriching environment.
- **Risk Assessments:** Conducted risk assessments for departmental processes, machines, and equipment, ensuring compliance with safety regulations.
- **Technical Problem-Solving:** Resolved technical machinery and IT issues, demonstrating problem-solving skills and creativity to maintain operational continuity.
- **Team Collaboration:** Collaborated with various departments, providing technical guidance and support for operating, troubleshooting, and maintaining machines and equipment.
- **Supplier Communication:** Coordinated with suppliers and the Purchasing Team to order supplies and resources.
- **Administrative Tasks:** Handled paperwork for ordering materials and managed petty cash submissions and reimbursements to staff.
- **Educational Support:** Offered technical knowledge and guidance to teachers and students in CAD/CAM such as Fusion 360, 3D printing, laser cutting, and water-jet cutting, significantly improving project quality and outcomes. Created Fusion 360 tutorials for remote learning during the COVID-19 pandemic.
- **Workshop Facilitation:** Conducted leather-crafting workshops, expanding the school's summer program and promoting engaging learning experiences.

Full Stack App Developer

Singapore

Freelance

December 2023 - February 2024

- **Full Stack Development:** Developed and deployed a full-stack web application from scratch using modern technologies such as React, Express, Node.js, MongoDB, and Tailwind CSS.
- **Client Collaboration:** Liaised directly with the client to gather data, establish app specifications, and design user flows, ensuring the project closely aligned with their needs.
- **User Feedback Integration:** Handled numerous iterations based on client feedback, streamlining and improving the user experience, while effectively prioritizing tasks under tight deadlines.

Skills

Frontend Development

- React, React Native, HTML & CSS, JavaScript, Tailwind CSS, Bootstrap, Vite, Expo, npm

Backend Development

- Node.js, Express, MySQL, MongoDB, Python, C++, Java

End-to-End Testing

- Cypress

Version Control

- Git, Github

CI/CD

- Netlify, Render, Github

UI/UX Design & Wireframing

- Figma, Adobe Illustrator, Adobe XD, Canva

IDEs

- Visual Studio Code, Webstorm, Pycharm, IntelliJ

Workshop & Technical Skills

- Machinery Operation and Maintenance, Workshop & Classroom Support and Management, Risk Assessment (Health & Safety bizSafe level 2)

CAD/CAM

- SLA/Resin 3D Printing, Laser Engraver, CNC, Water Jet Cutter, Fusion 360, SolidWorks

Projects

Kimchinc

Freelance, Solo Project

Hospital Delivery Coordination System

December 2023 - February 2024

Overview

Leveraged an opportunity from a client to develop a hospital delivery management application aimed at replicating a similar system with a more customized, cross-platform, and efficient solution within 2-3 months.

App Features

- **Streamlined Logistics:** Enhanced hospital delivery coordination between admins and drivers with a robust web application that optimizes logistics for time-sensitive medical supplies.
- **Dedicated User Interfaces:**
 - **Administrators:** Comprehensive yet easy-to-use UI for managing jobs, driver assignments, and logistics with real-time tracking for efficient decision-making and operational flow.
 - **Drivers:** Streamlined interface displaying crucial job details, navigation, and updates, focusing drivers on timely delivery
- **Integrated Workflow Design:** Tailored UIs for different roles seamlessly support real-time collaboration between administrators and drivers, ensuring effective communication and status monitoring.
- **Reporting Tools:** Includes monthly summaries and Excel export capability.

Technical Summary and Key Takeaways

- **Efficient System Design:** Developed a system that minimizes paperwork and errors, enhancing operational efficiency and accountability.
- **Resourcefulness and Self-Learning:** Adopted a web-based approach for broader accessibility without prior native app development experience, solving challenges using any available resources.
- **Emphasis on Practical Functionality:** Focused on quickly delivering a functional application to meet tight deadlines, emphasizing core functionality in early development stages.
- **Code Quality and Refactoring:** Initially focused on functionality; recognized the importance of ongoing code improvement and regular refactoring for quality enhancement.
- **Client Interaction:** Direct client engagements provided crucial insights for data collection, driving iterative design tailored to user needs and boosting client satisfaction.
- **Prompt-Engineering:** Utilized regenerative AI for enhanced concept understanding and guidance, developing skills in crafting strategic questions to elicit optimal responses.

Technologies and Processes

MERN (MongoDB, Express, React, Node JS) stack, HTML, CSS, Javascript, Tailwind CSS, Postman, CI/CD (Netlify, Render), VS Code, Github

You Are Broke!

Solo Project

Finance Tracker and Budgeting App

March 2024 - Present

Overview

Leveraging the invaluable experience from a previous app, Kimchinc, I undertook a new challenge to reinforce my fundamentals in full-stack development.

App Features

- **Finance Management Simplified:** Track and manage your finances effortlessly. Create and manage wallets for different purposes and log transactions with a few clicks.
- **Net-Worth Calculation:** Automatically calculates your net worth based on wallet balances to help you understand your financial standing.
- **Cross-Platform Accessibility:** Use the application on any device, including mobile phones and desktops, thanks to a responsive design that adapts to your screen size.

Work in Progress

- **Budgeting Tools:** Soon, you'll be able to add budget categories and allocate funds, enhancing your financial insight and control.
- **Insightful Dashboards:** A dedicated dashboard will display key financial summaries and analytics, offering a comprehensive view of your economic activity.
- **Export Data:** Export summaries and financial data in various formats such as CSV, Excel, and PDF.

Technical Summary and Key Takeaways

- **Foundation in Full-Stack Development:** Developed a robust cross-platform finance management app using the MERN stack and Vite for a streamlined development process.
- **Enhanced User Experience:** Built the user interface from the ground up, opting not to use frameworks like Tailwind CSS to deepen understanding of CSS fundamentals.
- **Data Handling:** Optimized CRUD operations through leveraging newly learned concepts such as React Context and useMemo for efficient state management.
- **Security Measures:** Improved security with hashed data storage and JSON Web Tokens for session management.
- **Reliability Testing:** Conducted extensive end-to-end testing with Cypress to ensure application reliability and function.
- **CI/CD:** Gained significant experience in setting up and managing CI/CD pipelines using Netlify, Render, and GitHub, automating build, test, and deployment processes for continuous integration and delivery.

Technologies and Processes

MERN (MongoDB, Express, React, Node.js) stack, HTML, vanilla CSS, Javascript, Vite, Postman, End-to-end Testing (Cypress), CI/CD (Netlify, Render), VS Code, GitHub

Pop's Picks

Solo Project

Finance Tracker and Budgeting App

April 2024 - Present

Overview

Leveraging my practical experience in full-stack development, I delved into mobile app development with React Native. With the aim on exploring native app development and API integration, this project allowed me to quickly adapt and apply my web development fundamentals to mobile environments, exploring the popular React Native framework.

App Features

- **Seamless Exploration:** Search and track movies effortlessly.
- **Detailed Descriptions:** Access detailed movie descriptions with a single click.
- **Custom "JS" Button:** Instantly display all Jason Statham movies.
- **Streamlined Experience:** No sign-up required for a streamlined user experience.

Work in Progress

- **Notify Austin to Download:** A button enabling direct notifications between the user and developer for movie downloads. Exclusive to personalized use but demonstrates potential for broader user-specific functionalities.
- **Deployment:** Planning to deploy the app on the Apple App Store, allowing free downloads. The "Notify Austin to Download" feature will be exclusive to my dad.

Technical Summary and Key Takeaways

- **React Native Exploration:** Gained practical experience in React Native and its capabilities for mobile development on iOS.
- **User Interface Design:** Designed a user-friendly interface from scratch, enhancing accessibility and ease of use.
- **Local Storage Implementation:** Implemented local storage for data retention, negating the need for a backend database.
- **API Integration:** Integrated with The Movie Database (TMDB) API for dynamic movie fetching based on popularity, search queries, and specific actor features.
- **Development Tools:** Utilized Expo to streamline development, build, and deployment processes, significantly enhancing the iOS development experience.

Technologies and Processes

React Native, Expo, JavaScript, VS Code, GitHub, XCode Simulator