

Brandon Wong

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Summary

I'm a Fullstack developer specializing in building and delivering outstanding digital experiences. Currently, I'm building zero-to-one processes and engineering solutions at Trustana.

Experiences

Trustana | Singapore

Fullstack Developer | 06/2022 - Present

1. Increased the page interactivity and responsiveness by 20% by implementing pagination across APIs and loading states after users performed actions.
2. Reduced and controlled the number of issues by 50% by implementing TDD practices and increased the code coverage quality by 20% adhering to clean software design methodologies.
3. Increased insights of user actions and behaviours by implementing segmentation thereby empowering business and product teams to execute informed decisions.
4. Designed and architect microservices with high robustness and reliability for dedicated user services which handles scalability and traffic.

Switcheo | Singapore

Fullstack Developer | 07/2021 - 03/2022

1. Designed and developed real-time analytics charts serving as a BI tool for a blockchain which consist of a community based governance protocol.
2. Designed and developed onboarding flow for a real-time decentralised trading platform which includes mobile responsive components.
3. Implemented rich web user experience with responsive and reactive components with smooth high quality transitions and animations.

Sustenir | Singapore

Technology Architect | 06/2019 - 06/2021

1. Design, develop, manage, maintain, deploy, and troubleshoot holistic farm control systems from hardware integration to end user software interface.
2. Value engineered over 3 iterations of the control system to increase efficiency by 15% whilst at least 10% of cost reduction. Development and design include the following systems: electrical circuitry, programmable logic controller (PLC), MQTT communication protocol, Postgres database, Node JS, React.
3. Deploying more than 5 production solutions with low maintainability and high reliability.
4. Providing technical support and guidance across multiple countries in Southeast Asia.

Mediatek | Singapore

Senior Software Engineer | 02/2018 - 05/2019

1. Power Integrity solution : Signed off 5 projects for reliability tests which includes integrating heat dispersion polygon layer designs.
2. Incorporating prediction model with machine learning to improve accuracy and reducing turnaround time for validating results.

Intel | Bayan Lepas, Penang

Software Developer | 08/2015 - 02/2018

1. Design Electrical Verification - High Voltage Reliability Tool Developer in C++, Python and Perl for layout and schematic designs for production IP release.
2. Developed and owned a domain of the solutions for Electrical Over Stress and Bias Temperature Stress which produced 2x runtime improvement over the legacy solutions. Leading implementation of regression system which increased code coverage of the tool by 60%.
3. Developed divide and conquer solution to reduce runtime by 5x and capacity limitations while executing the tool with large data input along with multithreaded processing.

Sony | Bangi, Selangor

Design Engineer | 06/2014 - 08/2015

1. Designed technical specifications for audio levels and graphical features to improve user accessibility for audio features.
2. Developed an automated test tool in C# for software design validation which reduced regression test duration by 50% from 8 hours to 4 hours.

Skills

Typescript, React, Golang, Python, GraphQL, Prisma, PostgreSQL, MongoDB, Vercel, AWS, GCP, Docker

Highlights

- Departmental recognition for successful deployment software solutions with significant improved runtime and robustness across business groups.
- Managed a team of 5 developers on a weekly development cycle with 95% deliverables successfully deploy and accepted.

Pivotal Labs – Singapore - Jun – Aug 2019

Engaged, assimilated and adopted the effective Pivotal Labs Extreme Programming which is the core of this organization.

OCBC HACK-IT! - Singapore 2021

(2 person project)

Developed a HiFi mockup of a cinema application with an easy user verification process.

HealthHack - Singapore 2019

(5 person project)

Developed a prediction model and an app for women's menstruation cycle correlating to their PMS symptoms.

Education

University of Nottingham | Nottingham, England

Masters of Computer and Electronics Engineering | 06/2014

First Class (Honours)

Partnered with Motorola Solutions for an electro-mechanical camera stabilization solution