Justin Gnoh

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An entrepreneurial and adventurous Computer Science undergraduate with a passion for Web3.0, blockchain technology and solving quality-of-life problems. My multi-disciplinary education enables me to appreciate the bigger picture, allowing me to be more than just a cog in a machine.

EDUCATION

National University of Singapore   Aug 2019 – Apr 2023
Bachelor of Computing in Computer Science

- Specialization in Software Engineering & Human Computer Interaction (UI/UX)
- Software Engineering Principles • Software Testing • Database Systems and Design • Interaction Design (UI/UX) • Programming Methodology • Intro to Computer Networks • Data Structures and Algorithms

Singapore Polytechnic   Apr 2014 – May 2017
Diploma in Engineering with Business

- Exxon Mobil Gold Medalist (Valedictorian) • Institution of Engineers Gold Medalist
- Diploma Plus in Digital Media Creation (Adobe Photoshop, Illustrator, Premiere Pro, 3D modeling)

TECHNICAL SKILLS

- **Front-end:** ReactJS, EthersJS, JavaScript, HTML, CSS, Ionic, Material UI, Bootstrap, Typescript
- **Back-end:** Node.js, Express, Python, SQL (Postgres), Java
- **Others:** Solidity, Hardhat, Remix, Truffle, Ganache, Git, Figma, Redis, Jira, AWS, Docker

WORK EXPERIENCE

Mercedes-Benz Singapore   Aug 2022 – Present
Software Engineering Intern

- Project Leader for a gas-free Proof-Of-Attendance NFT portal utilized by 5 business units globally across Mercedes-Benz, leading a team of full stack developers and designers
- Built a full stack React application serving content from AWS S3 and blockchain integration with EthersJS, which houses 8 custom NFT collections that garnered over 100 mints on the platform
- Architected end-to-end requirements and integration with OpenSea, MetaMask and AWS to push application from proof-of-concept to production within 5 weeks
- Deployed ERC-1155 smart contracts for the Polygon main net with Solidity and Hardhat for deployment and automated testing

Mercedes-Benz Singapore   May 2022 – Aug 2022
Blockchain Product Management Intern

- Co-authored the production and enterprise release of a decentralized data marketplace that enables corporations to transact data while retaining data sovereignty
- Stepped up as an interim scrum master for a cross-border team of 15 developers and designers to facilitate dailies, sprint retrospectives, planning and achieve sprint goals
- Performed feature evaluations, scoping of feature sets and user acceptance test sessions prior to product release to identify bugs and incomplete features

- Conducted and organized self-initiated research on Ethereum, layer-2 scaling solutions, Web3.0 wallets, cryptocurrencies and the data economy which contributed to the team's knowledge base

Breathonix Pte Ltd   May 2021 – Oct 2021
Frontend Software Engineer Intern
- Developed, tested, and released native application (BreathOps) built on React and Electron, which successfully facilitated COVID-19 breath testing for clinical trials locally and overseas
- Coded a scalable settings architecture for modular rendering and logic that can be scaled across country deployments with unique integrations and data protection laws, removing the need for multiple repositories
- Integrated BreathOps with 3rd party blockchain digital certification services Accredify for Singapore, Malaysia (MyEG), Vietnam (VinGroup), to offload user data management, verify and validate COVID-19 test results

PROJECTS

WordSquirrel, National University of Singapore
- Co-developed a collaborative story writing web application with React and React Bootstrap, for children aged 9 – 16 with the ability to review and upvote completed stories
- Spearheaded the front-end design and development of the web application to synchronize functionalities with backend services
- Employed a micro-services architecture with Express and orchestrated via Kubernetes and Docker

Company Meeting Room Database Application, National University of Singapore
- Built a functional database application with PostgreSQL for organizations to book meeting rooms and provide health declaration and contact tracing capabilities
- Translated entity-relation data model into a relational database schema to enforce application constraints.
- Implemented PL/pgSQL procedures with triggers to facilitate the removal of participants that have a fever and update meeting room details accordingly

SoCianimals, National University of Singapore (Orbital – Apollo level)
- Architected React-Ionic web application that allows real-time voting and users to exchange selected user profiles with QR codes as a customizable name card
- Developed user interface and CRUD functionalities of user connections and profiles

CO-CURRICULAR ACTIVITIES

President   Mar 2020 – Jul 2021
NUS Funkstyles, National University of Singapore
- Led a committee of 7 to manage and organize events for a street-dance club of 198 members
- Organized and worked together with 3 newly formed working teams addressing budget management, new community engagement initiatives and member retention amidst evolving COVID-19 restrictions

ACHIEVEMENTS

- Huawei Future Interaction Design Award 1st Place (1st Group & 2nd Individual) 2021
- NUS Orbital Programme (Apollo 11) 2020
- NUS SumoBot Champion 2020
- Exxon Mobil Gold Medalist 2017
- Institution of Engineers Gold Medalist 2017
- $200 cash sponsorship United BMEC 2015
- Dean's List in 2015, 2016, 2017
- Offered PSC Scholarship 2016