Sean Zhenyu Wang

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EDUCATION

Northeastern University – Roux Institute, Portland, Maine   Jan 2022 – Present
Master of Science in Computer Science

Relevant Coursework: Database Management, Mobile App Development, Algorithms, Web Development

Nanyang Technological University, Singapore   Aug 2015 – June 2019
Bachelor of Science in Maritime Studies & Commodities Trading

Relevant Coursework: Data Structure, Python Computational Thinking, Digital Logic, Probability and Statistics

TECHNICAL KNOWLEDGE

Languages:	Java, C, C++, Python, JavaScript, Dart, Kotlin, R
Web Development:	React, Tailwind CSS, Spring Boot, MERN stack, Node.js, Express, MongoDB, MySQL
App Development:	Android Studio, Git, Kotlin, Flutter Framework, Firebase
Certificates:	Udacity Java Web Developer Nanodegree (2021), DataCamp Data Scientist with Python Career Track (2018), Chartered Financial Analyst Level 1 (2019)

WORK EXPERIENCE

Synpulse Management Consulting, Singapore   July 2019 – July 2021
Avaloq Software Developer / Tableau Consultant

- Managed business analysis for investment banks in Asia-Pacific region, including HSBC and UBS; acted as subject matter expert and consultant on Tableau business intelligence, Avaloq financial static data, security trading and reporting.
- Performed object-relational mapping, function parameterization on Avaloq ICE; developed XML templates for bank statements.
- Coded financial products and transaction rules in PL/SQL following OO design in an Agile environment.
- Interfaced with clients, held design/gap analysis workshops, and documented functional specifications.
- Coordinated 11-month complex Avaloq system integration and user acceptance testing; built approximately 500 test cases.
- Innovated test reporting automation tool with Jupyter Notebook using Python Pandas data science package.

Shopee, Singapore   Jan – Apr 2019
Data Science Intern

- Led sales business intelligence project; produced insights into buyer behaviour, promotion, pricing; proposed a complex Python-scripted Power BI deployment project and held BI development training.
- Designed A/B test plans to study customer purchasing pattern impacted by rebate and marketing campaigns.

PROJECTS

Puddle, https://tinyurl.com/4rs8pd83   May 2022 – Aug 2022

- Developed an Android social app integrated with **Google Maps SDK**; enabled interaction with map markers to discover Puddle groups in the neighborhood; built filter, text search, locating service modular packages, and chat activities.
- Coordinated the project with a remote team on **GitHub** codebase; led functional specification and prototyping workshops.
- Formulated **Material UI** theme specifications used in the app and ensured **SOLID OO design** principle is executed.
- Utilized **Firebase** for synchronizing local data change and remote updates on User and Message document collections.

Medical Journal Data Warehouse   May 2022 – July 2022

- Devised a **STAR-schema OLAP** data warehouse hosted on **AWS MySQL** for analytical queries on medical journals.
- Transformed the **XML** data source of over 160000 rows in **R** script into a normalized **ER-model** of authors and journals.

Harbour, https://tinyurl.com/yckzzf9m   Mar 2022 – Apr 2022

- Deployed a Facebook-like web app with **Next.js** framework, interactive **React** components, **Tailwind CSS**.
- Integrated **Facebook authentication** by NextAuth.js session management; leveraged **Redux** for state management.
- Implemented **Spring Boot** for a **RESTful** backend; realized CRUD tasks against **MySQL** database via **Spring Data JPA**.

Flash Cart   July 2022

- Built a **cross-platform** delivery app for buyers to place orders and pay, and sellers to manage products/stocks, and process orders.
- Refactored reusable **Flutter** widgets and **Dart** classes into screens, widgets, services, models to maintain modular codebase.
- Managed app-wise state with **Flutter Provider** and persisted data with **MongoDB** via **Mongoose** on **Express** server.
- Configured **Google/Apple Pay** for payment methods with **Flutter Pay** package.