WANG ZHENYU SEAN

Portland | Maine | 04103 | +1 (207) 810-9111 | wang.zhenyu3@northeastern.edu

LinkedIn: www.linkedin.com/in/zhenyuwangsean | GitHub: https://github.com/Sespeck | Portfolio: https://sespeck.github.io/portfolio

EDUCATION

Northeastern University – Portland Campus, Portland, Maine   Jan 2022 – Present
Master of Science in Computer Science, Expected Graduation: Dec 2023
Relevant Coursework: Database Management, Mobile App Development, Algorithms, Web Development

Nanyang Technological University, Singapore   Aug 2015 - Jun 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   Jul 2019 – Jul 2021
Avaloq Software Developer / Tableau Consultant

- Held Avaloq solution design workshops on topics of financial static data, security trading and reporting. Interfaced with business users and documented functional specification upon requests. Responsible for distributing work packages to junior developers.
- Full SDLC and Agile development in object-oriented programming for financial products in PL/SQL on Oracle database. Performed Object-Relational Mapping, function parameterization on Avaloq ICE. Developed XML templates for bank advice and statements.
- Development of scripted test cases and coordinated 11-month complex system integration and user acceptance testing project. In charge of daily test run assignment to end users. Expertise technical support in trading desk operation during functional and regression test cycles. Innovated test reporting automation toolset using Python Pandas data science flow at HSBC.
- Tableau consultant & developer, expert in interactive data visualization and drill-down for Risk Business Intelligence at UBS.

Shopee, Singapore   Jan – Apr 2019
Data Science Intern

- In charge of sales business intelligence project, producing insights into buyer behaviour, promotion, pricing. Proposed a complex Python-scripted Power BI deployment project across sales categories. Responsible for BI development training.
- Designed A/B test plans on studying customer purchase pattern impacted by rebate and marketing campaigns.

PROJECTS

Puddle, Google Maps-Interactive Live Messaging Community App, https://tinyurl.com/4rs8pd83   May – Aug 2022

- Developed an Android social application integrated with Google Maps SDK. Live interaction with map markers allows users to discover Puddle groups in the neighborhood. Built filter, text search, locating service modular packages, and real-time chat activities.
- Coordinated the project with a remote team on GitHub codebase, led functional specification and prototyping workshops, responsible for implementing SOLID principle, Material UI theme specifications.
- Utilized Firebase for synchronizing local data change and remote updates on User and Message document collections.

Medical Journal Data Warehouse, OLAP database design and data migration project   May – Jul 2022

- Developed a STAR-schema OLAP data warehouse hosted on AWS MySQL, enabling analytical queries on medical journals.
- Transformed the XML data source of over 160000 rows using R into a normalized ER-model of authors and journals

Harbour, Full stack CRUD web app with React and Spring Boot   Mar - Apr 2022

- A Facebook-like web app deployed with Next.js framework, interactive Next/React components styled by Tailwind CSS.
- Integrated Facebook authentication enabled by NextAuth.js session management. Used React Redux for state management.
- Used Spring Boot for a RESTful backend. Realized CRUD tasks against MySQL database via Spring Data JPA.

Flash Cart, Full stack instant delivery app with Flutter, Express, MongoDB, Mongoose   Jul 2022

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