

# WANG ZHENYU SEAN

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## EDUCATION

**Northeastern University – Portland Campus**, Portland, Maine Jan 2022 – Present

Master of Science in Computer Science, Expected Graduation: Jul 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

<b>Languages:</b>	Java, C, C++, Python, JavaScript, Dart, Kotlin, R
<b>Web Development:</b>	React, Tailwind CSS, Spring Boot, MERN stack, Node.js, Express, MongoDB, MySQL
<b>App Development:</b>	Android Studio, Git, Kotlin, Flutter Framework, Firebase
<b>Certificates:</b>	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 static data, security trading and reporting. Defined and documented functional specification for private banking products' object mapping, trade flow customization and functionality parameterization.
- Complete SDLC and Agile development experience in object-oriented design of financial trading process, relational data modelling in PL/SQL. Worked as associate reporting stream representative, responsible for distributing work packages to junior developers.
- In charge of test case design and test management analysis for over 11-month SIT and UAT cycles, along with daily test run assignment to hundreds of business users. Expertise training support in helping users perform trading operation tests. Redesigned and automated test reporting using Python Pandas data science flow saving hours of manual work daily at HSBC.
- Independent Tableau consultant on R&D of a revamping project for risk reporting, which automates 90% of Excel reporting and increases risk analysis accuracy at UBS. Redesigned dashboard layout and optimized risk KPI calculation algorithm.

**Shopee**, Singapore Jan – Apr 2019

Data Science Intern

- In charge of sales performance analysis project, automated reporting with Python script-running Power BI dashboards.
- Designed A/B test plans on studying online customer purchase behaviour impacted by rebate and marketing campaigns.

## PROJECTS

**Puddle**, Google Maps-Interactive Live Messaging Community App 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.