Qile (Asher) Zhou

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EDUCATION

New York University   09/2024 - 05/2026
Master's in Computer Science | Honor: Graduate Merit-Based Scholarship | GPA: 4.0/4.0

The National University of Malaysia   10/2020 - 07/2024
Bachelor of Computer Science with Honors | Honor: Dean's List | GPA: 3.78/4.0

SKILLS

- Languages: Swift, Python (Django), Java, C++, JavaScript (Node.js, Vue.js, Express.js, Webpack, D3.js, Leaflet, jQuery, Ajax), C, PHP (CodeIgniter), HTML, CSS (Bootstrap), XML, Visual Basic .NET, Prolog
- Data Tools: Amazon Web Services (AWS), Spark, Dask, MongoDB, Hadoop, Firebase, MySQL, SQLite, Microsoft Access
- Integrated Development Environments (IDEs): Xcode, JetBrains Developer Tools, Android Studio, Microsoft Visual Studio
- Version Control: Git, GitHub
- Operating Systems: macOS, iOS, Windows, Android, Linux
- Virtualization Tools: UTM, Parallels Desktop, VMware Fusion, Oracle VM VirtualBox
- Game Development: GDevelop
- Graphics & Design: Figma, Sketch, OpenGL, Pixelmator Pro, Canva, Final Cut Pro
- Interests: User Interface (UI) and User Experience (UX), Web Development (Front-End, Back-End, and Full Stack), Mobile and Desktop Applications Development, Game Development, Computer Graphics, Virtual Reality (VR) and Augmented Reality (AR), Data Visualization

EXPERIENCE

Institute of Computing Technology, Chinese Academy of Sciences   09/2023 - 01/2024
Software Engineer – Research and Development (R&D)

- Designed and developed iOS applications using Swift, improving user experience with streamlined and intuitive interfaces
- Enhanced full-stack development expertise by utilizing DOM, Node.js, Webpack, and Express.js to create scalable web apps
- Built a responsive JavaScript To-Do List app, ensuring cross-platform compatibility and smooth user interactions
- Leveraged the Vue.js framework to develop dynamic front-end components, enhancing performance and accessibility

PROJECTS

VocationalNYC – Web App Connecting New Yorkers to Vocational Training Courses   01/2025 - Present

- Building a web app with Python (Django) to help users filter, review, and access financial aid for vocational training courses

Human-Computer Interaction in iOS Farm Management App Design   09/2024 - 12/2024

- Designed user personas and conducted interviews to identify pain points, prioritize key needs, and inform design decisions
- Created prototypes in Figma for core needs such as task management, real-time chat, and an interactive farm layout map
- Refined the design through 7 usability testing rounds, improving task completion efficiency by 40% and user satisfaction

Interactive Data Visualizations of Global Education Expenditure and Academic Success Factors 09/2024 - 12/2024

- Developed an interactive web app with D3.js to visualize global education expenditures and student performance factors
- Visualized a global education expenditure map with scalable bubbles, interactive tooltips, and zoom/pan features
- Built a performance dashboard (line, bar, scatter, box plot) with filtering (search, dropdown), highlighting, and tooltips
- Trained ML models (Linear Regression, Random Forest, and Support Vector Machine) to predict grades with 85% accuracy

Online Pharmacy System for Prescription Medications (Web Programming)   10/2022 - 08/2023

- Developed PharmChat, a web app using PHP, MySQL, HTML, CSS, and JavaScript with Ajax for dynamic updates
- Created a multi-user platform with distinct roles for administrator, doctor, and patient, each with tailored access controls
- Enabled full CRUD functionality for authentication, profile updates, medication tracking, consultations, and prescriptions
- Integrated healthcare and pharmacy services, enhancing oversight and reducing the need for visits during the pandemic

Online Shopping System for Watsons (Object-Oriented Software Engineering)   11/2021 - 01/2022

- Developed a dual-role shopping platform in Java using the Model-View-Controller (MVC) framework for maintainability
- Implemented authentication, product browsing, cart, payments, order history, and admin controls for inventory and users
- Presented the system to Watsons' departments, earning commendation for its intuitive design and seamless functionality