WANGXING (ARIEL) ZHAO

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EDUCATION

University of Pennsylvania **Philadelphia, PA**

Master of Computer and Information Technology May 2023 (expected)

Cumulative GPA: 4.0/4.0

Relevant Coursework:

Intro to Software Development | Intro to Computing Systems | Algorithms and Computation

Data Structures and Software Design | Computer Systems Programming

Middlebury Institute of International Studies **Monterey, CA**

Master of Public Administration in International Management

Tsinghua University **Beijing, China**

Bachelor of Science in Civil Engineering

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, Swift, SQL

Web: HTML, CSS, Bootstrap, Express, Node.js, jQuery

Other tools: Git, Eclipse, Visual Studio, IntelliJ, XCode

Databases: MongoDB, Firebase, MySQL

Data Analysis: Matplotlib, NumPy, Pandas, Seaborn

SOFTWARE AND WEB DEVELOPMENT PROJECTS 2020 – 2021

Seattle Traveler's Picks Web Application

- Designed and built a full-stack web application with HTML, CSS, JavaScript, Bootstrap and jQuery (fully deployed to Heroku via Git), which allows travelers to recommend places of interests in Seattle
- The web app lets authenticated users generate posts by adding new places with comments, uploading photos, and tagging their locations using Google Maps geo-location APIs
- Leveraged Node.js, MongoDB and Express following the RESTful routing patterns to handle backend, server-side processes including user authentication, post editing and deletion

Photo Sharing Social Networking iOS App

- Built an Instagram-like social networking iOS app using Swift and following the Model View Controller (MVC) design pattern
- Designed user interfaces and navigation for home feed, user profile, sign-up & login, and creating/editing posts
- Implemented user authentication as well as a direct messaging feature with Firebase
- Enabled push notifications sent to device via HTTP requests using Firebase Cloud Messaging

LC4 Assembler in C

- Wrote an assembler program in C that reads in assembly language and generates its machine equivalent
- The program translates assembly instructions in the LC4 instruction set architecture into binary form, written out to a .obj file that is executable by PennSim, an LC4 Simulator

PROFESSIONAL EXPERIENCE AND ACHIEVEMENTS

S&P Global Market Intelligence 2015 – Present

Lead Research Analyst, Technology, Media and Telecom (TMT)

- Heading up our APAC analyst team in primary market research and analysis for technology, media and telecom industries across 21 territories in the Asia Pacific
- Applying analytical models in identifying and forecasting trends, drawing actionable insights from data analytics that shape business strategies and decision-making
- Working closely with executive teams on product expansion and innovation and facilitated marketing initiatives with key industry stakeholders to drive continued business success