Zhaoyu Zhang

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Summary

Highly skilled and ambitious software engineer with a MEng in Computer Science from University of Manchester. Proficient in Java, Python, and HTML/CSS, with experience in software engineering and machine learning. Demonstrated success in developing springboot web applications and speech-to-text recognition models. Seeking a challenging role to apply my skills and contribute to innovative projects.

Education

MEng in Computer Science
Manchester, UK

University of Manchester
Sep. 2018 - June. 2022

- Relevant Modules: Algorithms and Complexity, Object-oriented Programming with Java, Data Engineering, Software Security, Databases, Logic and Modelling, Machine Learning and Optimization, Computer Vision, Text Mining, The Internet of Things, Mobile System, and Cryptography.

A Levels
Wuhan, China

International Division of Hubei Wuchang Experimental High School
Sep. 2015 - June. 2018

- Overall: A*, A* in Further Mathematics, A* in Chemistry, A* in Mechanics, A* in Statistics, A in Physics, A* in Core Mathematics.

Work Experience

Radley Associates
London, UK

Full Stack Engineer - Springboot, Postgresql, Jsp, Next.js, React, Hibernate
March. 2023 - Present

- Spearheaded the development of PROMS 2, collaborating with a cross-functional team of 3 members to create a cutting-edge frontend and optimize the backend. Implemented RESTful API to enhance system efficiency, resulting in a significant 10% improvement.
- Assumed responsibility for the maintenance and troubleshooting of PROMS 1, promptly resolving bugs and issues to ensure smooth operation.
- Pioneered the implementation of an advanced AI-powered search engine within PROMS 1, revolutionizing the user experience and facilitating more accurate and efficient search results.

iFLYTEK
Wuhan, China

Software Engineer Internship
Jul. 2021 - Sep. 2021

- Developed and implemented a smart speech-to-text model which support dialects from different regions, with 93% accuracy and 0.3s average response time, significantly aiding the company's developments.
- Earned full-time return offer for my outstanding performance.

Ministry of Foreign Affairs Office of China
Wuhan, China

Technical Assistant
Jun. 2019 - Sep. 2019

- Streamlined online visa application process, increasing efficiency by 54%.
- Introduced auto-translation document feature and real-time document format conversion to their website.
- Recognized as Top Intern of the Year with full-time return offer

Selected Projects

Personal Website
London, UK

HTML, CSS, Typescript, AWS – Links to GitHub, Home
Oct. 2022 - Ongoing

- Implementing Features: (1) Sample showcase of selected projects. (2) Image-to-text conversion page.(3) Professional Developer Blog. (4) Resume. (5) My HTML-version papers and reports. (6) Social media contact links.
- Automated integration using Github Actions and AWS S3.

Optimizing Minimal Counterexamples
Manchester, UK

Java, Cyber Security – Links to GitHub, Presentation
Mar. 2022 - May. 2022

- Developed a solution to help users identify and locate bugs in Java programs.
- Reduced the numerical size of counterexamples generated by Java BMC (Bounded Model Checker) to make them more manageable and easier to understand, with experiments conducted by classmates that showed a 33% increase in coding efficiency.

Leader Follower
Manchester, UK

Java, RMI – Links to GitHub, Presentation
Mar. 2021 - May. 2021

- Developed a program which plays repeated 2-person Stackelberg pricing games as the leader under imperfect information, Largest profit reached 19.488 (3 d.p.) per trade against 3 different followers.

SkillSet

Programming	Java & Spring Boot, Python, HTML5, CSS3, Javascript & React, Typescript, Hibernate, LaTeX
DevOps	Git, Subversion, Code Review, Github Actions
ML	Pytorch, Jupyter Notebook, Pandas, TensorFlow(Keras), Scikit-learn.
Data	Data Mining, Data Streaming, MySQL, Postgresql, Data Warehousing
Environment	Git, AWS, Web/RESTful API, Linux/Ubuntu, shell, Windows PowerShell
Other	Markdown, Operating System, Pair/Ensemble Programming, TDD