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 commercial experience in software engineering and web designing. 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.

Work Experience

Radley & Associates   *London, UK*

Software Developer - Springboot, Postgresql, React, Hibernate, DevOps   *March. 2023 - Present*

- Lead the development of PROMS 2, collaborating with a cross-functional team to optimize the grading efficiency by 30%. Implemented RESTful API to enhance integration with other platforms, reducing 3 major and 2 minor vulnerabilities in PenTesting.
- Enhanced and expanded PROMS 1 by implementing quantitative math models and frameworks. Achieved notable improvements in website responsiveness, elevating customer satisfaction levels by 9%, while increasing project maintainability by extending DevOps.
- Successfully led the migration of VCS from Subversion to Git , build management from Ant to Gradle, User Interface from JSP into React, and deployment from shell to Kubernates.

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