

Yitao Zhou

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PROFESSIONAL SUMMARY

Self-motivated, teamwork-oriented and responsible software engineer with prior experience in software development (both frontend and backend), quality assurance, and machine learning. Highly educated, pursuing a master's degree in Computer Science with 5+ years programming experience. Bilingual in English and Mandarin. Looking forward to an entry level software engineer position.

EDUCATION

New York University

Masters in Computer Science | Graduate School of Art and Science (GPA: 3.9/4)

New York City, NY

Aug '21 - May '23

• **Coursework:** Algorithms, Operating Systems, Programming Languages, Big Data Analysis, Cryptography and Network Security, Distributed Systems

New York University Shanghai

Bachelor of Science in Computer Science (GPA: 3.67/4, Major GPA: 3.8/4)

Shanghai, China

Aug '17 - May '21

• **Honors:** University Honors Scholar, Dean's List for Academic Year, NYU Shanghai Global Elite Scholarship

EXPERIENCE

OptumLabs, UnitedHealth Group

Software & Data Science Engineer Intern

Minnetonka, Minnesota

Jun '22 - Aug '22

- Coded Terraform scripts for AzureML setup, pre-installed packages, and scripted to initialize clusters during AzureML workspace creation, built up connection between data lake and AzureML
- Reconfigured and managed PyPi Mirror virtual machine, fixed mirror setup and network rules
- Configured Postman request collections from openAPI Spec, generated hundreds of Postman requests

Cisco Systems

Machine Learning Intern

Suzhou, China

Jul '21 - Aug '21

- Implemented Random Forest Algorithm to implement a machine learning model, by analyzing IP network traffic in each hotel room, to help hotels detect the existence of hidden cameras in rooms
- Assessed the model with tagged real IP network traffic validation data, and the model achieves 82% accuracy of detecting the hidden cameras
- Built a Django frontend to automatically send detected hidden camera to hotel administrator through WeChat

Zoom

Web Quality Assurance Intern

Suzhou, China

Jun '20 - Jul '20

- Developed more than 40 Selenium automated tests to assure the quality of Zoom's web page
- Built up connections between test procedures and Jira to record problems during web quality testing
- Deployed the automated test programs in Jenkins code repository and built regular test mission

PUBLICATIONS

Y. Zhou, J. Wu and S. Zhang. (2021, April) **Anonymity Analysis of Bitcoin, Zcash and Ethereum**. 2021 IEEE 2nd International Conference on Big Data, Artificial Intelligence and Internet of Things Engineering (ICBAIE). pp. 45-48. doi: 10.1109/ICBAIE52039.2021.9389894. [Paper]

PROJECT HIGHLIGHTS

Favorite Restaurants (link) (Node.js, MongoDB and Bootstrap based frontend project)

- Based on YelpCamp (a yelp style site for campgrounds), designed and implemented my own website to track restaurants I have visited, where users can register, create, edit, comment and remove restaurants
- Implemented the server-side using Node.js with Express, frontend with Bootstrap, applied MongoDB as the database to store restaurants info, users, reviews and session data

SKILLS

- **Programming:** Python, C++, Java, SQL, HTML, CSS, JavaScript, Node.js, React.js, Express, MongoDB, Terraform, Elixir
- **Other Technologies:** Selenium, Git, Azure, CI/CD, Agile development, RESTful, Jenkins, Databricks, Django, Apache