

Yongxiang Cai (Shawn)

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Skills

- Java, C, Python/R, JavaScript/TypeScript
- SQL, NoSQL, XML, Spring Boot, Restful services, Devops, Tencent Cloud, IBM Cloud, React, Vue, Node.js, JQuery, forensics, Penetration Test, Cybersecurity
- UI Design, Coding, Software development, Data analysis, Test-Driven Development, CI/CD, Behavior-Driven Development, Computer Security Incident Management
- VS Code, Navicat, API Cloud, Apache tomcat, Unity, Git, Linux
- English(intermediate) Chinese(Native)

Experience

June 2022 to PRESENT

National STEM, Remote - *Software Engineer Intern*

- Led front end development of new authentication project for reconstruction Membership article web platform.
- Restructured communication flow among twelve departments that cut down paperwork by half. Redesigned user interface, doubled website traffic.
- Originated a backend monitor tool that monitors the visitors/updates, generates a digest, and sends email alerts.

April 2017 to June 2019

Long Island Chinese American Association, Long Island - *Group Leader*

- Led backstage departments of the LICAA association to conduct three large parties. (thousands of people participated)
- Planned the parties, and co-directed backstage and personnel review. Organized hundreds of volunteer member recruitment. Certificated in engaging.

Part-time

Varsity Tutor, Remote - *Tutor/Professor*

- Instruct students in introductory, intermediate, and advanced JavaScript, Java, and Python programming classes.
- Create tutorial videos that walk through how to create projects in Python, JavaScript, and Java.

Education

September 2019 to Present

State University of New York College at Potsdam

Bachelor of Science - BS, Computer Science Major GPA: 3.1

Relevant Coursework Completed: Computer Networks(4.0), Data Analysis(4.0), Programming Languages, MIPS Assembly and Algorithms.

Self Taught: Framework such as Node.js, Spring Boot and React. Data distributed, multi-tiered systems, and relational databases. MySQL, NoSQL.

Awards

VEX Robotics Competition States Award
 UN Champions of the Earth Inspiration and Action Award Co-laureate
 Potsdam Hackathon Honorable Mention Award
 Google KickStart Participation Award

Certificates

Certified Cybersecurity Roles, Processes & Operating System Security
 Certified Penetration Testing, Incident Response and Forensics
 Certified Spring MVC, Spring Boot and Rest Controllers
 Certified IBM Full Stack Application Development
 Certified IBM AI Engineering Professional

Project Experience

Personal Interactive Website

- Technologies used: MongoDB, Meteor, APIs, JavaScript, JQuery, Responsive Web Design, Routing, and Web Development.
- Documented and received feedback on the animation of the interactive website from an idea to a fully functional piece of software in a series of structured development.

Deep Learning Face Recognition Application

- Technologies used: DL, Convolutional Neural Networks, ML Algorithms, SciPy, ScikitLearn, Apache Spark, Keras, PyTorch, Computer Vision, and TensorFlow.
- Implemented Siamese Network, and trained the network with the Triplet loss function.
- Created Anchor, Positive and Negative image dataset(inputs of TLF), through the network embeddings.
- Reduced 30% workload, and increased database admin effectiveness by 20%.

Full Stack Cloud Dealership Review Application

- Technologies used: Cloud Native, Devops, IP, Hybrid Multi-cloud, Cloud Computing, JavaScript, Cloud Applications, and DRCS.
- Built the IBM Cloud platform host front-end web & Bootstrap with react. Packed with Django with the management of OpenShift.
- Performed DevOps and CI/CD tools on Cloud Foundry, NoSQL database links the Node.js.

Spring Boot Java Markdown Inventory

- Technologies used: Spring Framework, Restful services, Java, Spring Boot, Bootstrap, and Thymeleaf.
- Built cloud services via the use of object-oriented design techniques; Java Servlets, the Java Spring Framework; and cloud computing platforms.
- Designed cloud services securely, scalably, and efficiently. To create robust cloud services.