

## 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*

- Taught three classes Java/Python/JavaScript interactive and Programming algorithms to develop complete projects.
- Ensured ability to read/modify other's code with penetration tests and kept coding skills/Algorithms buildups.

### 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.