Xijie Guo

8 Perimeter Ctr E Apt 2538, Atlanta, GA 30346 347-476-5253 | xijieguo@gmail.com

EDUCATION

Mount Holyoke College

South Hadley, MA

B.A. in Computer Science, Magna Cum Laude; GPA: 3.83

Aug. 2015 - May 2019

Columbia University

New York City, NY

Visiting Undergraduate Student

Jan. 2018 - Dec. 2018

Coursework

CS: Data Structures, Algorithms, Applications of Data Management(Database), Operating Systems, Machine Learning, Artificial Intelligence, Probabilistic Graphical Models, Data Mining, Programming Languages

Math/Stats: Calculus, Discrete Math, Linear Algebra, Mathematical Statistics, Probability Theory

Professional Experience

University of California, Berkeley, Information Security Office

Oct. 2022 - Present

IAM Application Developer

Berkeley, CA (Remote)

- Serve as the subject matter expert for the Campus Directory Update tool and an application built on Grails framework managing the lifecycle of 17,000+ Special Purpose Accounts.
- Design and develop an identity management platform using Groovy, Grails, Spring Boot, PostgreSQL, ActiveMQ, LDAP, and Vue, managing over 1.3 million identity records for campus-wide users.
- Independently led development of the Special Purpose Account application, migrating the app from Grails 2 to Grails 6 and from Bamboo to GitHub Actions and implementing the display name update feature.

PayPal Holdings, Inc.

Nov. 2019 - Oct. 2022

Software Engineer

San Jose, CA

- Developed 10+ microservices and 20+ REST APIs on the compliance and customer verification platform using Java, Spring framework, Oracle, and IBM Operational Decision Manager, optimizing customer data collection, verification, and compliance decision-making processes for over 400 million users.
- Led a functional test migration initiative, mentoring 3 new hires to enhance the new functional test framework and migrate 300+ test cases, reducing functional test execution time from 4 hours to 1 hour.
- Triaged, troubleshot, and implemented fixes for 30+ production issues during live support rotations.

Google Applied Machine Learning Intensive Summer Program

May 2019 - Aug. 2019

Claremont, CA

- Selected as one of the top 2% of applicants for this highly competitive 10-week, 450-hour ML program.
- Analyzed, transformed, and visualized more than 20 datasets and conducted 6 ML projects in Python using NumPy, pandas, Scikit-learn, Tensorflow, and Matplotlib.

MassDiGI SIP

AMLI Fellow

May 2018 - Aug. 2018

Game Development Intern - Lead Technology Programmer

Worcester, MA

• Created a cross-platform 2D mobile game 'Spell Strike' using Unity and C# from scratch, launched in 2019 on the App Store and Google Play. Trailer: https://www.youtube.com/watch?v=mDl-pZZGE6U.

RESEARCH EXPERIENCE

University of Rostock via DAAD RISE Program

May 2017 - Aug. 2017

Research Intern

Rostock, Germany

- Designed and implemented a programming abstraction (API) in Java to mitigate runtime uncertainties in ubiquitous environments and support developers in managing large-scale device systems.
- Analyzed two publications and implemented, tested, and debugged code consisting of 50 classes and interfaces using Java reflection, dynamic proxies, and publish-subscribe pattern.

Teaching Assistant, Advanced Object-Oriented Programming Course

Mount Holyoke College, Computer Science Department

Sep. 2017 – Dec. 2017 South Hadley, MA

• Supported 20+ students with 10 labs and 7 assignments by hosting weekly office hours.

MaGE Peer Mentor, Intro to Java Programming & Problem Solving Course Mount Holyoke College, Computer Science Department

Jan. 2017 – May 2017 South Hadley, MA

• Led weekly learning modules and supported 20+ students with lab assignments. Conducted code reviews and provided individualized feedback for assignments to 7 students in weekly 1:1 meetings.

PROJECTS

EatLike | Capstone group project from Google Applied Machine Learning Summer Program

- Built a recommendation engine using Python and Flask Framework that ranks restaurants by topic similarity to a specified query restaurant and displays the top positive and negative reviews.

 Demo: https://drive.google.com/file/d/1suO1hKgpdsGHqMsFcTFRJn7XdAyxTbIb/view?usp=sharing
- Preprocessed a 9 GB unziped Yelp dataset using BigQuery and NLTK library and applied LDA, HDP, and LSI topic models from Gensim to extract topics from restaurants.
- Conducted sentiment classification on over 10,000 restaurant reviews, achieving 87% precision, 96% recall, and 89% accuracy on test data.

TECHNICAL SKILLS

Languages: Java, Python, Groovy, C/C++, C#, SQL, JavaScript, TypeScript, HTML/CSS

Frameworks: Spring Boot, Spring Integration, Spring Security, Grails, JUnit, TestNG, Mockito, Spock, Hibernate, Vue

Libraries: Log4j, Jackson, Apache Commons, NumPy, pandas, Scikit-learn, Tensorflow, Matplotlib

Other Technologies: REST API, CI/CD, PostgreSQL, Oracle, LDAP, Hadoop, Docker, Tomcat, Unix/Linux, GCP

Honors And Awards

Chancellor's Outstanding Staff Awards for GRLN Project, University of California, Berkeley Spot Awards for Functional Test Migration Initiative, PayPal Holdings, Inc.