LAN ZHANG

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Education

HARVARD UNIVERSITY   Cambridge, MA
A.B. Applied Mathematics in Computer Science, Minor in Economics. GPA 3.94/4.00.   May 2021
<u>Relevant Coursework:</u> Data Structures and Algorithms, Abstraction & Design in Computation, Data Science, Artificial Intelligence, Computational Linguistics, Theoretical Computer Science, Statistical Inference, Probability, Tech Ethics.
<u>Awards & Certifications:</u> John Harvard Scholar, Derek Bok Certificate of Distinction in Teaching, AWS Cloud Practitioner

Experience

CAPITAL ONE   McLean, VA
Associate Software Engineer | Enterprise Products & Platform Tech   August 2021 – Present
- Contributed to 20+ UI and accessibility updates to Native Enrollment screens of Capital One Android app
- Implemented native FAQ screen template and integrated Kotlin multiplatform library for password validation into digital enrollment flow

CAPITAL ONE   McLean, VA
Software Engineer Intern | Retail & Direct Bank Tech   June 2020 – August 2020
- Refactored custom view classes in Swift for user interface components of the Capital One Mobile iOS application
- Wrote unit tests for API requests, data managers, and view models of the Teen Checking mobile widget to increase code coverage from 12% to 85%

UNITED STATES CENSUS BUREAU   Washington, D.C.
Software Engineer Intern | 2019 Civic Digital Fellow   June 2019 – August 2019
- Implemented segment of a machine learning pipeline that uses public data to automate the industry classification code assignment process for 5.9 million U.S. business establishments
- Invited to present project to U.S. Census Bureau executive staff, including Deputy Director & COO Ron Jarmin, and to an audience of 300 consisting of leaders in the civic technology space
- Contributed to projected savings of $1.2 million

Leadership & Activities

HARVARD JOHN A. PAULSON SCHOOL OF ENGINEERING AND APPLIED SCIENCES   Cambridge, MA
Ordinary & Partial Differential Equations (APMTH 105) Teaching Fellow   January 2021 – May 2021
- Planned and taught weekly review sections to 30+ students covering important concepts in course curriculum
- Aided with the writing and grading of weekly problem sets and hosted office hours to provide additional support

INSTITUTE FOR APPLIED COMPUTATIONAL SCIENCE AT HARVARD UNIVERSITY   Cambridge, MA
Introduction to Data Science (COMPSCI 109A) Teaching Fellow   August 2020 – December 2020
- Hosted weekly office hours to provide 50+ students with guidance and support on homework assignments
- Assisted with the grading of problem sets, lab-based coding activities, and development of capstone projects

HARVARD PROJECT FOR ASIAN AND INTERNATIONAL RELATIONS (HPAIR)   Cambridge, MA
Executive Director   September 2017 – August 2020
- Oversaw multi-national team of 65 to curate academic content, negotiate sponsorships, and coordinate logistics for the 2020 HPAIR Harvard Conference, which hosted 300+ delegates from 40+ countries
- Managed event, venue, and staffing logistics for the 2019 HPAIR Asia Conference in Nur-Sultan, Kazakhstan (5 days, 300+ delegates)

Skills

Full Stack Development: Python, Kotlin, Swift, OCaml, C, C++, HTML / CSS, JavaScript, Flask
Data Analysis: Python, R, SQLite

Language: Fluent Mandarin Chinese