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> AWS Cloud Practitioner, Cum Laude, John Harvard Scholar (top 5% of class)

Experience

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

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

Teaching & Leadership

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
- Received Derek Bok Certificate of Distinction in Teaching

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 30+ 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, HTML / CSS, JavaScript, Flask
Data Analysis: Python, R, SQLite
Language: Fluent Mandarin Chinese