Zhitong Zhang

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EDUCATION

Tufts University, Medford, MA   Class of 2022
Bachelor of Science in Data Science, Computer Science, and Math
Minors: Engineering Management and Economics
GPA: 3.90/4.0, Dean's List all semesters
Relevant Coursework: Statistical Pattern Recognition, Machine Structures, Database Systems, Cloud Computing, Data Structures, Algorithms, Machine Learning, Artificial Intelligence, Web Programming, Probabilistic Systems Analysis

EXPERIENCES

Redfin   San Francisco, CA
Software Engineering Intern   May 2021 - Present
- Design and Implement the first public **REST API endpoint** which allows other companies/clients such as Patch.com to query our MLS database on houses by region **(Java)**.
- Integrate school districts search which includes over 10,000 new regions for homebuyers to pick houses from **(Apache Solr)**.
- Spearheaded an initiative to build a **machine learning pipeline** to balance autocomplete boosts for the search box.

Facebook   Menlo Park, CA
Software Engineering Intern   January 2021 - April 2021
- Spearheaded a metadata management framework for False Negative Correction (post ranking enforcement) to facilitate easier onboarding, maintenance, monitoring, and auditing of newsfeed post demotions**(PHP/Hacklang)**.
- Created a reshare interstitial checking **UI** internal tool that fetches user interaction information with sensitive reshare content such as disease, violence, and politics (**ReactJS**).
- Reclaimed .05% of overall Facebook App **gCPU** from refactoring and deprecating old newsfeed ranking configs.

Tufts CS/EE Department   Medford, MA
COMP 135 - Machine Learning Teaching Assistant   January 2020 - January 2021
- Tutored students on implementation and analysis of **machine learning algorithms (Python)**.
- Graded homework and exams, all while giving feedback on how to write more effective code.
- Lead labs that consisted of concepts from the week's lecture.

Citrix   Burlington, MA
Software Engineering Intern   June 2020 - September 2020
- Mobilized the migration from nightly to **continuous build** and **integrations** using **Jenkins** for the provisioning team.
- Integrated an industry-standard **login VSI** via **Azure** in the build pipeline for the provisioning team that tests and monitors the performance and availability of both virtual **desktop infrastructure** and applications **(Groovy)**.
- Implemented **locality** in relation to **network optimization** that sped **compilation** of the master build by **3% (C++)**.

Tufts JumboCode   Medford, MA
Head Of Operations, Developer   September 2018 - May 2020
- Managed day-to-day operations of 8 projects that develop **mobile/web applications** for non-profit clients.
- Represented the club in budget negotiation with the student senate and the CS department.
- Created a web application that displays a comprehensive map view of Bi+ organizations and events based on geographical locations, along with interactive contact/sign-up guides (**Javascript**).
- Utilized **React.js** and **Node.js** to develop a map-based web search for the National Bisexual Resource Center.

Bank Of America   Manhattan, NY
Digital Ambassador Intern   June 2018- August 2018
- Engaged, informed, and assisted clients on how to conduct simple transactions through self-service technologies.
- Ensured clients are connected to the appropriate experts to help them achieve their financial goals.
- Leveraged available resources and technologies to optimize the client experience.

PROJECTS

Tufts Medical COVID-19   April 2020
- Adapted the **CHIME model** from UPenn Medicine, a tool that leverages **SIR modeling** to assist hospitals with capacity planning around COVID-19.
- Communicated model results to aid forecast of early ICU strain on the hospital to stakeholders.

TECHNICAL SKILLS

Programming Languages: C++, C, JavaScript, Java, Python, Matlab, C#, PHP
Tools: Microsoft Azure, Kubernetes, AWS, Jenkins, Jira, NodeJS, ReactJS, Git