

Arya Lingyu Zhao

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EDUCATION

Columbia University, School of Engineering and Applied Science New York, NY
B.S. in Computer Science, Minor in Applied Math, GPA: 3.7, Dean's List Graduating May 2021
Full-scholarship for intensive summer language study at Humboldt University of Berlin Jun. 2019 – Jul. 2019

SKILLS AND LANGUAGES

Languages/Libraries: Python, JavaScript/TypeScript, Java, C/C++, SQL/NoSQL, GraphQL, Jest, HTML, CSS, jQuery, D3
Frameworks/Tools/OS: Node, Express, AWS, Unix/Linux, Docker, PostgreSQL, MongoDB, React, Next, REST, Git, Apollo
Relevant Courses: Distributed Systems, Advanced Programming in C/C++, Data Structures in Java, Analysis of Algorithm, Cloud Computing & Big Data, Intro to Databases, NLP, AI, Data Visualization, UI Design, Stats & Prob

INTERNSHIPS AND RESEARCH

Software Engineer Intern Jun. 2020 – Aug. 2020
The DTX Company, full-time New York, NY

- Developed, tested and deployed APIs and microservice for large-scale web application Flowpage, adding eight new features and shortening 98% of transition time for users from other platforms in a 12-week paid internship
- Coded in Node.js using TypeScript, Express, Multer, Axios, REST API, and Google APIs; managed Azure SQL DB and Firebase using TypeORM, GraphQL, Apollo; tested, deployed and monitored using Jest, Docker, Kubernetes, DataDog
- Contributed 15,000 lines of codes, collaborated in a team of 11 developers using GitHub and Jira, and got return offer

Software Engineer Intern Jan. 2020 – Apr. 2020
Makeithappen.nyc, part-time New York, NY

- Built website frontend for four company clients - consulting and media firms, using React, Bootstrap, AJAX, HTML, CSS and WordPress, and collaborated in team of five developers and designers in semester-long paid internship

Software Engineer Intern Dec. 2019 – Jan. 2020
UTOFUN, part-time New York, NY

- Extracted, compared and merged multiple datasets into a single data stream for consumption by a real-estate investment web app in a three-week winter internship, achieving 97% building coverage over Manhattan housing
- Crawled data from large-scale web datasets using Pandas, pyMongo, JSON, Requests, and storing into MongoDB

Data Analysis Research Assistant Oct. 2018 – Dec. 2018
Columbia University Department of Operation Research New York, NY

- Implemented statistical regression model predicting dental implant failure across age, gender and medical history
- Participated in weekly strategy meetings, brainstorming new data analytics solutions with Prof. Van-Anh Truong

PROJECTS AND HACKATHONS

IP Geolocation Database Web App Feb. 2020

- Coded to get geolocation of IP addresses, to store recent searches in database, and to query search history
- Implemented MERN stack using MongoDB, Express, React, NodeJS, JavaScript, Bootstrap, HTML, CSS, REST, CORS

Year ++ Chrome Extension, Hack Lodge 2020, Menlo Park Jan. 2020

- Built to auto add selected FB friends' birthday to Google Calendar, and customize gift list and messages
- Published in Chrome Web Store, and leveraged JavaScript, jQuery, Bootstrap, Google Calendar API

Best Medical Hack Mobile App, HackCooper 2019, Cooper Union Sept. 2019

- Designed iOS app prototype to easily self-diagnose dementia and Alzheimer's using Google AutoML and AdobeXD

LEADERSHIP

Web Developer & Treasurer, Columbia Classical Performers Sept. 2019 – Present

Vice President, Columbia University Flute Choir Feb. 2019 – Sept. 2019