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, Unix/Linux, Docker, PostgreSQL, MongoDB, React, Next, REST, Axios, Git, Apollo
Relevant Courses: Analysis of Algorithm, Distributed Systems, Advanced Programming in C/C++, Data Structures in Java, Cloud Computing, Intro to Databases, NLP, AI, Data Visualization, UI Design, Stats & Probability

INTERNSHIPS AND RESEARCH

Software Engineer Intern — Jun. 2020 – Aug. 2020
The DTX Company, full-time — New York, NY
- Paid to develop, test and deploy APIs and microservice for large-scale web application Flowpage, adding eight new features and shortening 98% of transition time for users from other platforms
- 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 in 12 weeks, and collaborated in a team of 11 developers using GitHub and Jira

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 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