

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
Humboldt University of Berlin, **full-scholarship** for intensive language study 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, Flask
Relevant Courses: Analysis of Algorithm, Data Structures in Java, Intro to Databases, Natural Language Processing, AI, Advanced Programming in C/C++, UI Design, Data Visualization, Statistics & Probability

INTERNSHIPS AND RESEARCH

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

- Developed, tested and deployed website converter microservice, and integrated new features into website builder Flowpage API, shortening 98% of transition time for users from company's competitors
- Coded in Node.js using TypeScript, Express, Multer, Axios, REST, Google APIs and Hapi; managed Azure SQL DB and Firebase using TypeORM, GraphQL, Apollo; tested, deployed and monitored using Docker, Winston, Jest, DataDog
- Contributed around 14,000 lines of codes, and completed tasks within half of deadline time
- Collaborated in team of 11 developers and PM using Agile and GitHub in 12-week paid internship

Web Development Intern Jan. 2019 – 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, Requests, JSON within Python 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 full stack using React, MongoDB, JavaScript, Bootstrap, HTML, CSS, REST, Express, 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

Vice President (Columbia University Flute Choir), **Web Developer & Treasurer** (Columbia Classical Performers)