

EDUCATION

Tucson, AZ	University of Arizona	Jan 2016 – Present
<ul style="list-style-type: none">• M.S. in Computer Science, Expected Graduation: Dec 2021. GPA: 4.0• B.S. in Computer Science, Mathematics with Minor in Statistic and Data Science, Dec 2019. GPA: 3.8• Courseworks: Object-Oriented Programming and Designs; Software Engineering; Algorithms and Data Structures; Operating Systems; Web Programming; Theory of Computation; Computer Vision; Machine Learning; Text Retrieval & Web Search• Honors: Magna Cum Laude; Dean's List With Distinction; Peet Scholarship; Gordon Scholarship		

EXPERIENCES

Graduate Research Assistant	UA, Academic Administration	Feb, 2020 – Present
<i>Curricular Analytics</i> <ul style="list-style-type: none">• Developed a data processing pipeline, increased team data entering speed by 10x times faster. Python, AWS Lambda• Refined a discrete event simulator for curricular analytics, increased package compatibility. Julia• Created a data visualization tool, which assisted the UA Academic Administration with making an academic-level strategic plan in response to COVID-19. JavaScript, D3.js, HTML, CSS• Managed the deployment and the maintenance of the analytics infrastructure on AWS.		
Graduate Teaching Assistant	UA, Computer Science	Aug 2019 – Present
<i>Automata, Grammars and Languages</i> <ul style="list-style-type: none">• Held Office Hours and review sessions, and graded homework and exams for classes more than 60 students.		
Undergrad. Research Assistant	UA, Networking Research Lab	Feb 2019 – Dec 2019
<i>iViSA NDN video streaming project</i> <ul style="list-style-type: none">• Developed video loading re-trying feature, JavaScript• Modified synchronous actions to asynchronous, improved user experience. JavaScript• Wrote scripts for video processing and uploading, increased speed of loading video files to the database. Bash <i>MailSync Android Application</i> <ul style="list-style-type: none">• Developed the feature of transferring image through User Datagram Protocol (UDP) protocol. Java		
Undergrad. Research Assistant	UA, Aerospace & Mechanical Engineering	Dec 2018 – May 2019
<ul style="list-style-type: none">• Analyzed time series data using 3 regression models, praised by the supervisor, Dr. Zoltan Szabo, for efforts. MATLAB• Coordinated a team of 4, organizing and hosting weekly sync-up meetings.		

PROJECTS (<https://jzhangdeveloper.com> for more projects and additional information)

- **Personal Financial Management** (<http://kakeibo.jzhangdeveloper.com>): Responsive web application, allowing users to track spendings, set budgets, and view monthly summaries. **JavaScript, ReactJS, MongoDB, Express, D3.js**
- **Covid-19 Geographic Visualization:** Visualize the spread of the COVID-19 in terms of the number of confirmed cases in China throughout the timeline from January to March 2020 using geographic map. **Python**
- **SpaceX and Mars** (<https://spacexandmars.com>): Responsive website utilizing r/SpaceX and NASA APIs, displaying SpaceX's launch countdowns, historic launches and weathers on Mars. **GatsbyJS, ReactJS, GraphQL, Bootstrap, Bash**

COMPETITION

Third Prize	Arizona Robo Hackathon	Nov 2019
<ul style="list-style-type: none">• Directed a team of 5, leveraging a Jetbot AI Kit, trained and deployed a 18-Layer RestNet on AWS.		