Zach Tang

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EDUCATION

The University of Texas at Dallas <div align="right">Richardson, TX</div>
Bachelor of Science in Computer Science, GPA: 3.94 <div align="right">*Aug 2021 – December 2023*</div>

Selected Coursework: Data Structures and Algorithms, Computer Architecture, Computer Networks, Systems Programming (UNIX), Database Systems, Adv Algorithms, Programming Language Paradigms

EXPERIENCE

Software Engineer Intern <div align="right">June 2022 – Aug 2022</div>
Capital One <div align="right">*Plano, TX*</div>

- Developed an internal full-stack web application using React, Express, AWS CDN, AWS ALB, AWS Lambda, PostgreSQL, and TypeScript that hundreds of employees use daily to visualize and debug their Cypress tests
- Developed a REST API and backend using Express, AWS ALB, AWS Lambda, PostgreSQL, and TypeScript to store Cypress test results
- Developed an NPM package using NodeJs and TypeScript to capture Cypress test results and send to the API
- Set up end-to-end integration between the package, frontend, and backend
- Implemented the agile methodology in a CI/CD pipeline using Git, Jenkins, AWS, and Jira

Software Engineer Intern <div align="right">Aug 2020 – June 2021</div>
Meals on Wheels Houston <div align="right">*Houston, TX*</div>

- Developed an Alexa Skill using NodeJs to periodically survey the well-being of hundreds elderly users
- Developed a database using DynamoDB to store survey answers
- Developed the frontend using Alexa Presentation Language

PROJECTS

Royal Game of Ur | *React, Express, sockets.io*

- Developed a online two-player board game using React and TypeScript for the frontend and Express and TypeScript for the backend
- Implemented online multiplayer game sessions using sockets.io
- Hosted the web application using AWS EC2
- Implemented DNS routing using AWS Route53 and Namecheap
- Implemented continuous integration using GitHub webhooks and NodeJs scripting

Dallas 311 | *NodeJs, Alexa Skills Kit*

- Developed an Alexa Skill to provide valuable information about Dallas to its residents using NodeJs and Alexa Skills Kit
- Fetched service status data from Dallas's Open API
- Fetched city council meeting data from Dallas's Open API
- Developed the voice flow for getting service and city council meeting data using NodeJs and Alexa Skills Kit

Code for Good Hackathon (JPMorgan Chase) | *React, Flask, pandas*

- Developed a full stack web application to visualize the positive impacts of the Humane Societies using React for the frontend and Flask for the backend
- Processed large excel sheets containing information about rescued and sheltered animals using pandas

TECHNICAL SKILLS

Languages: TypeScript JavaScript, HTML, CSS, Python, C/C++, Java, SQL (Postgres)
Frameworks: React, Node.js, Express
Developer Tools: Git, AWS, VS Code, IntelliJ
Libraries: pandas, sockets.io, Alexa Skills Kit
Certifications: AWS Cloud Practitioner