Logan Jackson

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EDUCATION

The University of Texas at Dallas, Richardson, TX   Expected Graduation May 2024
Bachelor of Science**,** Computer Science

SKILLS

- **Languages:** Python, Javascript, C++, Rust, OCaml, SQL, Julia, Go
- **Markdowns:** Latex, Markdown, Org, HTML/CSS
- **Frameworks and Tools:** React, React Native, Flutter, Swift UI, Django, Postgres, SQLite, MySQL, MongoDB, Redis, Numpy, Pandas, Scrapy, Sklearn, Pytorch, Tensorflow, Pyspark, Flask, Express, Nginx, UNIX/Linux, Deno, ASP.NET

WORK EXPERIENCE

Dell, Austin, TX   January 2020 – May 2020
Software Engineering Intern

- Worked to lead a team of **5 other interns** on creative project using major technologies, utilized by Dell Engineers
- Improved API implementations from Dell Engineers by **100%** boosting performance in **2 other teams** of interns
- *USED: Express.js, ASP.NET, Angular, Unity, Arduino*

TxDoT, Austin, TX   June 2019 – August 2019
Intern

- Worked on process automation and quality assurance relating to legacy railroad records, plans, and agreements
- Attend meetings with critical stakeholders, and presented on key business operations to executive members
- Improved processing throughput of legacy records by **233%** using python for automation
- *USED: Python, Pandas*

TECHNICAL EXPERIENCE

Deep Learning for Brain Disorders (Research)

- **Lead a team of 3 other students** in order to create a model to classify, segment, and visualize brain data
- Created **3 working models** to classify brain disorders and segment biomedical imaging data each with **>90% accuracy**
- Worked with professor in order to create general case ensemble model with **74% accuracy**
- *USED: Torch, Fastai, Pandas, Numpy, AWS S3, Nilearn, R*

GAPTCHA (Mentee)

- Collaborated with a team of **2 other students** on Optical Character Recognition for CAPTCHA images
- Implemented a Convolutional Neural Network which extracts text from CAPTCHA with over **90% test accuracy**
- *USED: Selenium, Tensorflow, React, Flask, Pandas, AWS Elastic Beanstalk*

Comet Trade (Hackathon)

- Worked on a team with **3 other students** to attempt application that promotes fiscal responsibility in college students
- Created backend using mongodb, and flask developed machine learning core components with pytoch and sklearn
- *USED: React, Material UI, Sklearn, Torch, Scrapy, Mongodb, AWS Document-DB*

PROJECTS

Traffic Man (Hackathon)

- Actuated traffic signal policy optimization using automated reasoning
- Extended real world application of research technology allowing for real time interaction from data sources
- *USED: Prolog, Flask, s(CASP)*

Toast (Personal Project)

- Detect stroke risk in patients based on medical records in an attached database
- Created classification model for stroke risk in patients with **97% accuracy** on validation data
- *USED: Django, Sklearn, Pandas, Numpy, SQLite*

LC Tracker (Personal Project)

- Web application to help aspiring software engineers study for technical interviews using leetcode
- Currently tracks the popular Blind 75 questions on leetcode, along with their associated categories
- *USED: Next.js, Typescript, Bootstrap, and Vercel*