

ZACH GRAMSTAD

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EDUCATION

RICE UNIVERSITY

Houston, TX

Bachelors of Arts in Computer Science

May 2019

- 4.00 G.P.A., President's Honor Roll, Head Academic Fellow, Louis J. Walsh Scholarship in Engineering

HOPE CHRISTIAN SCHOOL

Birmingham, AL

Advanced Honors Diploma

May 2015

- Valedictorian, President of National Honor Society, Varsity Football Captain, National Merit Scholar Finalist

EXPERIENCE

SHIPT, INC. | TARGET CORPORATION

Birmingham, AL

Software Engineering Intern

May – August 2018

- Developed features for internal admin tool used by all (~400) employees (Ruby on Rails | PostgreSQL).
- Built Ruby API endpoints, wrote HTML email templates, revamped testing process (+40% speed | +2% coverage).
- Contributed significantly to defining and documenting new processes and best practices for all (30) backend engineers.

HOMEAWAY.COM | EXPEDIA, INC.

Austin, TX

Software Engineering Intern

June – August 2017

- Built Traveler Admin Tool for searching, displaying and editing a Traveler's IDs and history for hundreds of thousands of users. Tool to be used throughout entire Traveler Department (150+ developers) and Customer Service Department (ReactJS | BackboneJS | Java | Dropwizard | CassandraDB).
- Developed user-facing Email Notification Preference Dashboard to display email notification preferences to every HomeAway user worldwide (ReactJS | Redux | Java | Dropwizard).

TEP.IO

Birmingham, AL

Software Engineering Intern

May – August 2016

- Aggregated, analyzed, and displayed 12,000+ user and 350,000+ activity data points for social media app Outfit Outdoors (MongoDB | NodeJS | Bootstrap | AngularJS | Google Charts API).
- Developed chat bot to answer user queries using Facebook's chatbot API for Messenger (NodeJS | Express.js).

PROJECTS

SPECTRE | COMP 410

January-April 2018

- Managed a team of 20 juniors, seniors and graduate students to develop a cloud-based, multi-platform, multi-tenant, enterprise-level software project for multi-billion-dollar oil technology company Schlumberger, LTD.

HUMAN ACTION CLASSIFICATION

November 2018

- Trained neural networks using InceptionV3 and VGG-19 to compare the efficacy of various Recurrent Convolutional Neural Networks against more traditional methods of CNNs and 3D-CNNs using a subset of UCF101 data set.

DATA SCIENCE BOWL 2018 | KAGGLE

April 2018

- Performed image segmentation to identify nuclei on a diverse data set of medical images. Scored 475/3634 (top 14%).

RELEVANT COURSES & SKILLS

COMPUTER SCIENCE COURSES

576: *Deep Learning* | 540: *Machine Learning* | 410: *Software Eng. Methodologies* | 382: *Alg. & Discrete Math* | 330: *Intro to Data Science* | 321: *Computer Systems* | 322: *Parallel Programming* | 310: *Object-Oriented Design Patterns*

SKILLS

- *Proficient:* Java | Python | Ruby on Rails | JavaScript | C | ReactJS | Git | IntelliJ
- *Familiar:* NodeJS | Redux | Express.js | SQL | MongoDB | AngularJS | Eclipse

ACTIVITIES & HONORS

- Tau Beta Pi Engineering Honor Society
- Louis J. Walsh Scholarship in Engineering
- Duncan College Head Academic Fellow
- Duncan College Computer Science Fellow
- Rice Center for Engineering Leadership
- Rice University: Project Rousseau (Mentor)
- XA Christian Fellowship (Small Group Leader)
- Duncan College Men's Flag Football