Asu Dhakal

Contact	<u>Email</u>: asutosh.dhakal@utexas.edu <u>Phone</u>: 469.569.3338

Education

University of Texas at Austin — Expected May 2020
Bachelor of Science in Computer Science

Experience

Uber, Freight — May 2019 - August 2019
Software Engineering Intern — *San Fransisco, CA*
- Led the development of a micro-service responsible for a core part of the business, instituting better back-end practices in Go throughout the engineering teams
- Designed the back-end architecture for the service, implementing endpoints, creating integration pipelines, and writing ETL scripts to ensure data integrity
- Integrated the service with Uber's Maps platform, improving Carrier sentiment
- Orchestrated meetings spanning several teams to gather product requirements

Amazon, AWS — May 2018 - August 2018
Software Developer Engineering Intern — *Seattle, WA*
- Designed, built, and tested a service responsible for evicting impaired EC2 instances
- Developed an internal API coupled with work flows responsible for scheduling evictions, notifying customers, and evicting instances based on state machine guards
- Deployed the service to various regions and implemented throttling and metrics

Bankrate — May 2017 - December 2017
Software Engineering Intern — *Austin, TX*
- Implemented an API service using Spring Boot as a member of the engineering team
- Developed front end logic using NodeJS, React/Redux, and Express
- Created revenue processing systems to analyze and parse through large amounts of transaction data from CreditCards.com

Livestrong Foundation — Janurary 2017 - May 2017
Software Developer Intern — *Austin, TX*
- Used MongoDB and NodeJS to add functionality to the website
- Created a way to allow optimal search results when user's search for local YMCA spots using LeafletJS

Skills

<u>*Programming Languages:*</u> Java, Python, *Familiar with:* C, Ruby
<u>*Tools:*</u> *Familiar with* iOS, React/Redux, Django, Flask, HTML, CSS, Spring Boot

Projects

- Pintos — implemented a toy OS with thread synchronization, system calls, virtual memory, stack growth, and an extensible file system.
- WhereUT? — creating an application that allows users to find other students on campus and schedule hang-outs and social gatherings. Used Google's Firebase and authentication services from Twitter and Facebook.
- Listify — developed a small web app that returns Spotify playlist suggestions based on a user uploaded picture. Used python's Spotipy API and Microsoft's vision API.
- Digit Recognizer — used an evolutionary algorithm to optimize hyper parameters in scikit learns method MLPClassifier to improve digit accuracy to 98

Activites and Honors

Tech@UT, *Board Member and Mentor* — August 2016 - Present
University Honors — Fall 2016, Spring 2017

Notable Coursework

Data Structures, Algorithms, Operating Systems, *Advanced Data Mining
Data Management Computer Architecture, Discrete Mathematics, Linear Algebra, Probability, Computational Intelligence, *Programming Performance. (*Fall 2019)