

ABHISHEK EMIL MANDAL

Incoming Analyst at Deloitte

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📍 Austin, TX

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EXPERIENCE

Fujitsu Network Communications Inc.

Software Engineer Intern

📅 June 2019 – August 2019

📍 Dallas, TX

- Developed “Smart Parking” web app to analyze status and allotment of parking areas with Strategic Planning Team under the 5G Era Project initiative
- Created user-interface access to parking camera and data figures using React.js, Material-UI, and Visual Studio
- Communicated with 3rd party vendors such as Microsoft to purchase, evaluate, and integrate data analytics API
- Designed back-end services and protocols with acquired data analytics API using Node.js and MySQL
- Outlined software architecture with NaaS team to assimilate network and web app into one container using Docker
- Deployed application for commercial use in DFW Airport and Dublin, Ohio as on-site trial runs

Mobile Pervasive Computing Group

Researcher

📅 May 2018 – August 2018

📍 Austin, TX

- Researched and developed a program in MPC Lab for the Child Independent Mobility (CIM) project
- Implemented in Java an Android application for smart mobile devices using Bluetooth API's that operates automated procedure to observe adolescents
- Utilized Internet of Things' (IoT) Nordic “Thingy” devices to communicate packets information for project
- Employed tailored Continuous Neighborhood Discovery in application by applying Bluetooth Low Energy (BLEnd) protocols to achieve low energy cost benefits and accessible configuration

PROJECTS (MORE ON GITHUB)

Senior Design Project

Client: Nokia - Python & Shell Scripts

📅 Fall 2019 - Spring 2020

Testing framework to measure metrics for data privacy algorithms & de-identification protocols with telecomm data

Software Design and Engineering Project

Chat Rooms - Java

📅 Spring 2019

Multi-client chat server that hosts channels (1-1, group, or public) in local network - socket programming, multi-threading, and ob-server design patterns

EDUCATION

University of Texas at Austin

Cockrell School of Engineering

📅 2016 – 2020

📍 Austin, TX

B.S Electrical and Computer Engineering

SKILLS

Java

Python

JavaScript

C/C++

React

Node

Git

Linux

Material-UI

LEADERSHIP

Beta Chi Theta National Fraternity

Academic Advisor; Director of Recruitment

📅 Spring 2017 – Current

- Preparing campus events and student orientation functions to introduce individuals to Greek Life/UT Austin
- Leading operations to streamline recruitment and coordinate participation to maximize outreach by analyzing market
- Producing monetary funds for our philanthropy Beating Heart Disease by arranging fundraising events

HONORS



University Honors

Spring 2018



JP Morgan Chase Endowed Scholar

Fall 2017



Kush Endowed Leadership Scholar

Fall 2016



Society of M. W. Patriot Scholar

Spring 2016



Beating Heart Disease Philanthropy

Raised funds and awareness through donation drives, fundraisers, and outreach events for the American Heart Association.