ABDUL TOLBA

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EDUCATION

- **Wayne State University**, Detroit, MI   **Graduation Date: Apr 2020**
  B.Sc.Eng Computer Science   GPA: 3.87 / 4.00
  Courses: Web Applications, Cyber Security, Algorithms, Operating Systems, Database Management Systems
  Summa Cum Laude, Dean's List (Fall 2016–Winter 2020), Community of Scholars, Engineering Society of Detroit

TECHNICAL EXPERIENCE

- **University of Michigan**, Ann Arbor, MI   **May 2019–Present**
  Full Stack Developer

  - Migrated and redesigned several web applications to Python/React, improving overall run-time by by 25%
  - Made the risk assessment process for users 50% faster by re-building the university's 'RECON' security portal
  - Created a web portal that serves critical security information and updates to security liaisons
  - Utilized Splunk to monitor and debug production systems using queries and dashboards

- **Results at Hand**, Bloomfield Hills, MI   **Sep 2018–Dec 2018**
  Web Development Intern

  - Contributed to the efforts of Results at Hand, a startup that develops customized event registration applications
  - Worked with clients in scrum meetings to develop full-stack applications used by hundreds of conference attendees
  - Harnessed Backbone.js in web applications to optimize web applications and follow REST constraints

- **Harman International**, Novi, MI   **May 2018–Aug 2018**
  Software Engineer Intern

  - Collected training data and created neural network models to simulate machine learning predictions for infotainment systems
  - Developed an Android app to record and hold information on significant laboratory hardware
  - Worked with a RESTful web API using Node.js to perform CRUD operations for the lab hardware tracking system
  - Developed test suites and executed test scripts on infotainment units

PROJECTS

- **Social Networking - friend.ly**

  - Created a fully-featured social media platform that allows users to connect, share content, comment, and like posts
  - Designed and hosted a full stack application built using MongoDB, Express, React, Node, & SASS
  - Utilized the bcrypt password-hashing method and JSON web tokens to provide a secure authenticated login system

- **Indus - Supply Chain Management**

  - Actively collaborating with peers to create a user friendly supply chain management system for buyers and sellers.
  - Utilized React, Redux, and Firebase to create several pages based on provided Figma style guides
  - Embraced the Agile methodology and operated in 2 week sprints to complete stories
  - Participated in triweekly standups and weekly meetings to accomplish client needs effectively

- **Mi-Tutor**

  - Surveyed students and alumni to tackle the lack of tutoring and academic services at the University of Michigan
  - Lead a team of developers, designers, and marketers to manufacture a tutoring app
  - Designed an algorithm using user preferences & location to set up the most convenient and time-friendly sessions
  - Implemented a progressive web app using the Django framework and React.js with 2-factor Authentication (Duo)

SKILLS

- **Languages:** Python, JavaScript/TypeScript, Java, C#, C/C++, SQL, HTML, CSS/SASS
- **Frameworks/Libraries:** Node.js, Express.js, Django, React, Firebase, Angular, ASP.NET
- **Tools:** Git, Docker, Linux, JIRA, JWT, Azure, CI/CD, Heroku, Netlify