Nitish Vijai

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EDUCATION

University of Michigan – College of Engineering   **Ann Arbor, MI**
B.S.E in Computer Science and Data Science (Cum Laude)   *Class of 2023*

- **Courses:** Data Structures & Algorithms, Web Systems, Software Engineering, UI Development, Machine Learning, Computer Organization, Computer Vision, Statistics and AI, Programming Paradigms, Web Search & Information Retrieval, Human-Centered Software Design, Database Management
- **Awards:** 3x Dean's List, 2x University Honors, UofM Dayton Alumni Scholarship (2019), Eagle Scout (2018)

EXPERIENCE

Capital One   **McLean, VA**
Associate Software Engineer (TDP)   *August 2023 – Present*

- Cyber DevSecOps Engineering: August 2023 – Present

Nationwide   **Columbus, OH**
Data Solution Analyst Intern – Enterprise Data Office   *May 2022 – August 2022*

- Devised a predictive model with **Python**, **TensorFlow** and **Tableau** to forecast the number of future defects in JIRA backlog and estimate burndown rates for an internal application; attained **~70%** accuracy
- Performed exploratory data analysis on **10 years'** worth of data and created data models for documentation
- Won **4th** place in the company-wide hackathon; built a **React** web app to recommend insurance policies for Nationwide customers using a Bayes classifier to classify amongst similar policyholders in a pool of a **million** households of data

Principal Financial Group   **Des Moines, IA**
Software Engineer Intern   *May 2021 – August 2021*

- Streamlined **3** guided actions in Principal's **Salesforce CRM** by building new Aura components and Apex classes from the group up, increasing usage and completion rates of guided actions by ~**50%** and shaving average specialist support call times from **9 minutes** to **6 minutes**
- Wrote unit tests in **Apex** for each component to hit **75%** code coverage across the module
- Presented work to the RIS Business Leadership and successfully deployed improvements to Production

Niiti (Startup)   **Remote**
Software Engineer Intern   *September 2020 – January 2021*

- Integrated **4** new features and bugfixes using **C#/XAML** in the Windows version of Niiti's HuTouch, an app that allows one to share an Android activity/document and resume on Windows instantly
- Improved app compatibility by **25%** by refactoring the WinForms backend to communicate with the Registry
- **Shipped** and **deployed** the HuTouch Beta app on the Microsoft Store to allow for beta testing

PROJECTS

- **NoteTotes**: With two other developers, developed a full-stack **Flask** + **React** web app for authors and students to improve organization of their writing drafts and notes. Hooked up to **AWS S3** for file uploads
- **Michigan Data Science Team – Web Accessibility**: Scripted a web scraper using **Python** + **Selenium** to scrape online web accessibility evaluation tools for **17** U-M LSA department home pages (**Code** / **Writeup**)
- **Scalable Wiki Search Engine**: With two partners, built an end-to-end search engine that retrieves Wiki articles based on **PageRank** scores and **HITS** algorithm utilizing **Hadoop** and **MapReduce** with **Flask**
- **SillyQL (SQL) Linux Database**: Built a SQL simulator in C++ to emulate a relational database that supports **efficient** create, select, print, insert, delete, and join operations using **red-black trees** and **binary search trees** for rapid indexing and joining of queries

SKILLS

- **Languages**: Python, C++, C#, Java, HTML/CSS/JavaScript, SQL
- **Frameworks/Tech**: Git, Selenium, React, Flask, Firebase, Pandas, NumPy, AWS S3, Tableau, Salesforce
- **Interests**: Running, Biking, Tech, Travelling, Working Out, (Decent) Cooking, Indian Music/Dance