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 – GPA: 3.41/4.0   *Expected April 2023*

- **Courses**: *CodePath* Advanced Software Engineering, Data Structures and Algorithms, Web Systems, Software Engineering, UI Development, Machine Learning, Computer Organization, Computer Vision, Statistics and Artificial Intelligence, Programming Paradigms, Information Retrieval, Human-Centered Software Design, Database Management
- **Awards**: 3x Dean's List, 2x University Honors (2022), UofM Dayton Alumni Scholarship (2019), Eagle Scout (2018)

EXPERIENCE

Capital One   McLean, VA
Incoming Associate Software Engineer (TDP)   *Starting August 2023*

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

- Developed and visualized 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
- 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   Remote (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 ground up, increasing usage and completion rates of guided actions by approximately **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
- Enhanced **Atlassian** documentation to improve consistency and assist in future reference for team members
- 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# .NET/XAML** in the Windows version of Niiti's flagship product, 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 C#-based 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 | React, Python, Flask, HTML5, CSS3, SQLite, AWS S3
- With two other developers, developed a full-stack app for authors and students to improve organization of their writing drafts and notes
- Implemented frontend in **React** and connected to **Flask** API backend – enabled **AWS S3** uploads

Scalable Wiki Search Engine | Python, Flask, HTML5, CSS3, SQLite, Hadoop
- With two other partners, built an end-to-end, scalable search engine that retrieves Wiki articles based on PageRank scores and HITS algorithm utilizing Hadoop and MapReduce with **Python (Flask)**
- Implemented a RESTful API index server with **Flask** along with a Google-like search interface to display results

SillyQL (SQL) Linux Database | C++, Bash
- 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

ORGANIZATIONS

Michigan Data Science Team: On the Web Accessibility project team, scripted a web scraper using **Python** and **Selenium** to scrape online web accessibility evaluation tools for a dataset of **17** U-M LSA department home pages. (**Code** / **Writeup**)

SKILLS

Programming/Markup Languages: Python, C++, C# .NET, Java, HTML5/CSS3/JavaScript, jQuery, SQL
Frameworks/Tools: Git, Selenium, Flask, React, Firebase, NumPy, Tableau, Salesforce, Windows/UWP, AWS (S3), Office
Interests: Cooking eggs, running, biking, travelling, and Indian music/dance (active member of Michigan IASA)