Sidharth Venkatesh

Seattle, WA   **+1(765)775-8809**   **Website: sidv.me**
Email: sidv1799@gmail.com   **linkedin.com/in/sidharth-venkatesh**

EXPERIENCE

Microsoft   Redmond, WA

Software Engineer 2, Windows Operating Systems Power Team   2021-Present
Built analytics tools for system tracelogging to identify and fix system-wide power inefficiencies
  - o **Leaked Vsyncs – Identified and reduced overzealous VSync requests in 1st party apps**, and improved screen on battery life of all Windows devices by over 10 mins
  - o **Wakes – Tracked spurious app → CPU wakes** and proposed solutions to improve screen on battery life by 5%
- **Developed Energy Saver mode** on Windows to reduce battery usage for all Windows devices
- **Built** new modules into Windows Operating System to track energy usage of components & processes for current & next generation Arm architecture devices
- **Designed & built dashboards** for Microsoft and OEMs to monitor their devices' power performance
- **Improved** data pipelines to gather energy data by reducing runtime from over **24hrs to under 1hr**
- **Fixed over 10 issues from partnering with OEMs** to automatically flag bad power configuration issues in pre-market devices. Published GitHub open-source tool
- **Ran over 10 power-tuning experiments** on pre-market silicon to improve overall battery life
- **Windows Documentation Champ**-Worked with Eng teams to inventory, consolidate and migrate documentation. Employee signals indicated a **17% improvement** to documentation knowledge

Software Engineer Intern, Core Services Eng & Ops – HR Foundational Services   Summer 2020
Integrated SAP HR data and SAP SuccessFactors HR data into a single cohesive storage using Azure Data Lake and Azure Databricks
- **Created** a new data model that works cohesively with the 2 sources of HR data
- **Built** the backend microservices pipeline that reduced the time for transforming all HR data from upwards of **48 hours to few minutes**

Software Engineer Intern, Core Services Eng & Ops – Data Science   Summer 2019
Built a complete E2E automated solution to provision Azure resources (storage, repos, notebooks etc.) to bring down the setup/provisioning time from a **few weeks to under a day**
- **Designed and built** a frontend UI using Office UI Fabric React and TypeScript
- **Partnered** with T-Mobile in the Microsoft Hackathon to autonomously drive a car using image recognition and supervised learning

EDUCATION

Purdue University   West Lafayette, IN | 2021
Bachelor of Science in Computer Science [GPA: 3.85]
Languages: Rust, C, C++, C#, Java, SQL, Python, Assembly, React, Vue Js

PROJECTS

Rust based Spotify controls using Global hotkeys (https://github.com/Sid-V/global_hotkey_spotify)
Personalized music recommendation engine (https://sidv.me/spotify)
More project in my website (https://sidv.me/projects)

LEADERSHIP

Microsoft Ultimate Frisbee Team: Co-Captain/Coach   2024-Present
- Co-coptained/coached MSFT team and competed in the Corporate League against other corporate teams.