

# Sidharth Venkatesh

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## EXPERIENCE

### Microsoft

Redmond, WA

*Software Engineer 2, Windows & Web Experiences*

2021-Present

**Built analytics tools for system tracing** 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 AC & DC devices
- **Built** new modules into Windows Energy Estimation Engine to track energy usage of components & processes for next generation Arm silicon devices
- **Designed & built dashboards** for Microsoft and OEMs to monitor their products' power performance
- **Improved** data pipelines to expose retail 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. Deployed 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:** C, C++, C#, Java, SQL, Python, KustoQL, Assembly, React

**Skills:** Deep OS Analysis, Windows Performance Analyzer, Cosmos DB

## PROJECTS

Full stack personal website (Link: <https://sidv.me>)

Personalized music recommendation engine (Link: <https://sidv.me/spotify>)

## LEADERSHIP

**Microsoft Ultimate Frisbee Team: Co-Captain/Coach**

2024-Present

- Co-captained/coached MSFT team and competed in the Corporate League against other corporate teams.