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# AAKARSHIT PANDEY

## EDUCATION

### PURDUE UNIVERSITY

WEST LAFAYETTE, IN.

(Aug 2018 - Dec 2021)

- B.S. in **Computer Science**  
(Concentration: **Machine Intelligence, Systems Software, Database & Information Systems**)
- Certificate in **Entrepreneurship and Innovation**,
- Minor in **Mathematics**.
- Cumulative GPA: **3.99 / 4.0**
- **Graduated with Highest Distinction**

### RELEVANT COURSEWORK:

Artificial Intelligence  
Foundations of Database Systems  
Data Mining and Machine Learning  
Compilers (Grad Level)  
Operating Systems  
Computer Security  
Analysis of algorithms  
Computer Networking

## SKILLS

### PROGRAMMING LANGUAGES:

- (Proficient): Java, C, JavaScript, Typescript, Swift, Python, C++, PowerShell, SQL
- (Familiar): R, Bash Scripting.

### TECHNOLOGIES:

- Windows OS
- Windows Driver Programming,
- Spark & Spark Streaming,
- React, Next, NodeJS, MongoDB
- OpenCV, Dialog Flow
- Django, Flask
- Android & iOS App Development
- Spring Boot, Microservices,
- gRPC
- AWS, GCP, Firebase
- Selenium, Appium

## AWARDS & RECOGNITION

### DEAN'S LIST/SEMESTER HONORS

(Fall '18 - Fall '22)

Awarded for academic excellence.

### MOST INNOVATIVE IDEA

(Summer '20)

Won award for the proposition of a **Neural network** based COVID test at Decoding COVID event by South Asian Medical Student Association.

## EXPERIENCE

### MICROSOFT • SOFTWARE ENGINEER

May '22 – Present | Redmond, WA

- Working for the **Windows Networking, Security, and Containers team**.
- Investigating and delivering fixes for **critical security vulnerabilities, features**, and other improvements in **Windows networking stack**, specifically in **Windows Firewall, Windows Filtering Platform, IPsec**, and **VPN** protocols for all Windows platforms - **Win 11 to Win Vista** in releases which are patched to every Windows user every month.
- Servicing the kernel mode and user mode **windows networking drivers** for various networking protocols used in the **remote access server**.
- Working with issues and supporting live site in the Host Networking Service under Azure Container Networking which supports Azure Kubernetes Service, Azure NPM, and many other customers.
- Technologies: **OS Programming, Windows Networking, Containers, C, C++, PowerShell**

### SALESFORCE • SOFTWARE ENGINEER INTERN

May '21 – August '21 | San Francisco, CA (Remote)

- Worked on the Calculated Insights team for the **Audience 360** product.
- Built the **job orchestration engine** and the **spark streaming map-reduce job** for ingesting Kafka streams, data validation, transformation, enrichment, and delivering it to the data lake and customer-specified action endpoints.
- Built a standalone data validation library for use by **multiple teams across the org**.
- The feature is being **shipped out** in the upcoming releases of the product.
- Technologies: **gRPC, Apache Spark, Kafka, AWS (EMR, S3), Spring Boot**

### SALESFORCE • SOFTWARE ENGINEER INTERN

May '20 – July '20 | Remote

- Developed a full-stack framework from scratch for automated recoveries of failing Data Pipelines and Elastic Map Reduce Jobs that are running on AWS.
- Incorporated several heuristics for automation, **directly impacting** the **response time** for approx. **40% of the jobs** by multiple folds and many more indirectly.
- Technologies: Spring Boot, **AWS** (EMR, Data Pipelines, S3), PostgreSQL, React

### QUALITY-KIOSK TECHNOLOGIES • SOFTWARE ENGINEER INTERN

June '19 – July '19 | Mumbai, India

- Wrote new **test automation scripts** for various **Web, Android, and iOS apps**. Debugged existing faulty scripts, positively impacting support to **multiple clients**.
- Technologies Used: **Appium, Selenium, Java**

## PROJECTS & LEADERSHIP

### HELLO WORLD • DEV LEAD • (Spring'19 – Oct '21)

Lead a **SCRUM team** and developed a **web app**, and a **native mobile app** to support the hackathon. Developing a **Node, React (NextJS)** and **MongoDB** based **progressive web app** for the Hello World Freshman Only Hackathon at Purdue University.

**MERCHANT • Swift and NodeJS based iOS App** which is a closed community **e-commerce** app that lets users and negotiate/interact at pre/self-identified safe spots (Map & Live location integration). Followed **agile** and **scrum** principles with **weekly sprints**.

**CODER-MATE • Chat bot** that can be used by programmers for calculations, programmer news, and stack-overflow lookup. Built as a **Chrome Extension** with backend on **GCP**.