PRARTHI JAIN

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EDUCATION

- **Cornell University** — Ithaca, USA
  Master of Engineering Computer Science; GPA: 3.75 — *Jan 2022-Dec 2022*
- **Indian Institute of Technology (IIT), Indore** — Indore, India
  Master of Science (Research) Computer Science Engineering; CPI: 9.13 — *July 2018-July 2020*
- **Devi Ahilya Vishwavidyalaya (DAVV)** — Indore, India
  Bachelor of Engineering in Information Technology; Grade: 83.97% — *Aug 2014-April 2018*

SKILLS

Programming Languages and Framework: Go, Python, YAML, Java, C++/C, HTML, CSS, SQL, PromQL, AngularJS, Shell
Tools and Tech: Microservices, AWS, GCP, Azure, K8s, Postgres, Prometheus/Victoriametrics, Helm, Apache: Spark, Airflow, Zeppelin;

WORK EXPERIENCE

- **Amazon Web Services** — Mountain View, California, USA
  Software Development Engineer L5 — *Feb 2025 - Present*
  - Leading AWS Kumo intelligent tooling team focusing on GenAI initiative building an ai agent to provide AWS cloud support via agentic AI platform.
- **Dexterity, Inc** — Redwood City, California, USA
  Senior Software Engineer — *Jan 2023 - Jan 2025*
  - Lead the observability software monitoring platform. Built the telemetry pipeline for monitoring and alerting from near realtime data from robots.
  - Worked on fleet project to build and architect internal platform to manage fleets across deployed units. Built APIs and hosted them on GKE cluster deployed on GCP.
  - Designed and built the end-to-end customer portal REST APIs in golang for monitoring and deploying on GKE.
  - Added features to decommission Prometheus and move to multiple instances of Victoriametrics for horizontal scaling for real-time data from robots
- **Cornell University** — Ithaca, USA
  GTRS (Graduate Teaching/Research Specialist) — *Jan 2022 - Dec 2022*
  - CS4450(Computer Networks) Professor Rachit Agarwal and CS4120(Introduction to Compilers) Professor Andrew Myers
- **Cloudera** — Bangalore, India
  Software Engineer — *July 2020 - Jan 2022*
  - Automated Azure Kubernetes Service (AKS) and Elastic Kubernetes Service (EKS) cluster statuses dynamically which allowed customers to efficiently track any issues with the cluster. Created REST APIs for the same.
  - Added a high demand customer requested feature of Airflow and spark email alerts to provide alerts on SLA miss or failure of a job
  - Added command-line support to create EKS and AKS cluster that made the cluster creation easily manageable.
  - As a release captain, led the major release of product enhancement that brought several new features for the customers.
  - Open source contribution in Apache/Zeppelin: ZEPPELIN-5116, ZEPPELIN-5249
- **Indian Institute of Technology (IIT), Indore** — Indore, MP
  Teaching Assistant — *July 2018 - May 2020*
  - Teaching Assistant for IC 151(Computer Programming) and CS 358 (Compiler Techniques) course under Dr.Abhishek Srivastava

RESEARCH EXPERIENCE

- Designed and developed an Automated Surveillance System using Wireless Sensor Networks for the Melghat Tiger Reserve, under the supervision of Dr.Abhishek Srivastava. **Funded by:** Defries-Bajpai Foundation, USA
- Worked on a two-level lightweight adaptive approach to discard unusual faulty measurements by the sensor at the sensor node itself and generated an alarm only when the patient enters an emergency situation using Machine learning algorithms.

PUBLICATIONS

- **Anomaly Detection in Resource Constrained Environments with Streaming Data** [link]
  IEEE Transactions on Emerging Topics in Computational Intelligence *(Published)*
- **An Energy Efficient Fault-Anomaly Detection in Wireless Body Area Networks** [link]
  ACM Transactions on Computing for Healthcare *(Published)*
- **An Efficient Anomaly Detection Approach using Cube Sampling with Streaming Data** [link]
  9th International Conference on Pattern Recognition and Machine Intelligence *(Published)*

GRAD PROJECTS

- Alert vehicles based on dynamic routing of emergency vehicle by collecting real-time traffic conditions: Develop and deploy a machine learning application model on cloud to alert vehicles that are hindrance to emergency vehicle in real-time with Kafka streaming.
- ReviewBoard: Add functionality to provide reviews and comment on a commit message

ACHIEVEMENTS

- Secured 3rd rank in Onsite Finals of INCC 2018 hosted by IET DAVV on CodeChef (2018)
- Secured AIR 878 (amongst 1,30,000 candidates) in Graduate Aptitude Test in Engineering (GATE) with 99.3 percentile.
- Awarded with Certificate of Merit for being among the top 0.1 percent of successful candidates in Mathematics, All India Senior School Examination 2014 by Central Board of Secondary Education.