ASHWIN KUMAR UMA SANKAR

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EDUCATION

OREGON STATE UNIVERSITY - 4.0 GPA out of 4.0 — **Corvallis, USA**
MEng Computer Science and Engineering — **2023-2025**
- Specialized Courses: Computer Architecture and Data Structures
- Part time: Contributed to University Dining and Housing Services (UDHS) for two terms, gaining experience in roles such as cashier and other operational functions.

HINDUSTAN INSTITUTE OF TECHNOLOGY & SCIENCE - 3.7GPA out of 4.0 — **Chennai, India**
Bachelor of Science in Computer Science — **2018-2022**
- Specialization: IBM Cybersecurity and Data Security (30 Credits)

SKILLS

PROGRAMMING/SCRIPTING LANGUAGES: (Proficient) Bash, Python, JavaScript, Java, (Familiar) SQL, Dart, C, Julia
FRAMEWORK AND TOOLS: Git, Angular, React, Flutter, GCP, Azure, IBM, ELK, Django, Maven

WORK EXPERIENCE

AGROSPERITY KIVI (FINTECH) — **IIT MADRAS RESEARCH PARK, CHENNAI, INDIA**
Full Stack Developer — **2022-2023**
- Orchestrated intricate collaborations with six financial institutions, overseeing a substantial $838,095 USD credit portfolio for more than 3,000 farmers. This strategic management played a pivotal role in propelling the startup's exponential growth.
- Architected 22+ agile Spring Boot modules, led Kafka notification queue integration, devised ERD for PostgreSQL, implemented GCP with VPC, load balancers, GitLab pipelines, and deployed Grafana for real-time insights, fortifying backend.
- Utilized Python for Google Earth Engine Satellite Imagery analysis, driving a 44% boost in loan approval rates and revolutionizing farming community assessments.
- Led the development of an advanced platform, integrating payment portals such as Razorpay and QR code pay, and credit checks with Equifax, Digitap, and PennyDrop test. Tuned the company's service offering by integrating 12+ Angular modules with robust state management.

WIPRO GE - GENWORKS — **BANGALORE, INDIA**
Data Analyst Consultant — **2021-2022**
- Pioneered the establishment of Logstash, Kibana, and ELK systems, showcasing a proactive approach in identifying patterns and detecting unusual entries for enhanced system performance.
- Proactively conducted a thorough analysis of six years' worth of sales data, revealing valuable insights into trending sales items, high-performing products, and innovative inventory management strategies.
- Demonstrated initiative by integrating Apache Airflow alongside a DAG system, cultivating the efficiency and data integrity of data collation processes.

AWARDS

- Spearheaded the development of a credit-building solution, winning the "UmagineChennai Pitch" hackathon and securing approximately $47,619 USD in funding for implementation, a pivotal outcome. **2023**
- IBM PAPER PRESENTATION – Second Place won $200. **2019**

ACADEMIC PROJECTS

- Contributed to SCARR - Open Source, a Python-based SCA framework under the guidance of Professor Vincent Immler at Oregon State University's Hardware Security Research Lab. Converted algorithms such as LRA, SNR, and Chi-square to code, optimized with Numba's NJIT libraries, and performed multicore profiling using VTune. **2024**
- Developed and integrated a robust network stack in JOS OS, including device drivers, protocols (Ethernet, IP, ICMP, ARP, TCP, UDP), and a socket API. Ensured reliability through extensive testing and debugging, complemented by detailed documentation. **2021**
- Implemented secure logging for Windows 10 logs in C++ with AES encryption and SHA-256 integrity checks. Ensured access controls, key management, and alerting for suspicious activities. **2022**

VOLUNTEER EXPERIENCE

- Google DSC CLUB – as a Flutter Developer conducted workshops **2018-2021**
- Chennai School Of AI – Creative Lead in charge of hosting events **2019-2021**