San Jose, CA
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Ashish Jayamohan

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Education

San Diego, CA **UC San Diego** **Sep 2022 — Jun 2025**

- Bachelor of Science (BS) in Computer Science

Experience

SDE Intern **Amazon** **Jun 2025 – Present**

- Developed a generative AI-powered seller assistance agent, reducing First Contact Resolution (FCR) and First Response Time (FRT), improving seller support efficiency on the Amazon Sellers platform

Software Engineering Intern **Startree** **Sep 2024 – Dec 2024**

- Designed a rule-based performance advisor that analyzes query patterns to recommend indexing strategies, improving performance for Apache Pinot clusters
- Contributed to Apache Pinot open source, enhancing query optimizers and implementing transformation functions for geospatial (H3) and JSON data formats

Software Engineering Intern **Surface Optics** **Jun 2024 – Sep 2024**

- Built a cross-platform application enabling interoperability between FRED, Zemax, and BRDF coordinate systems, streamlining workflows for reflectometer engineers
- Improved Zemax interpolation algorithm, reducing required measurement points while preserving accuracy, increasing efficiency for data collection

Software Engineering Intern **Surface Optics** **Jun 2023 – Sep 2023**

- Led an optimization initiative from discovery to delivery - gathered customer needs, defined engineering scope, and implemented a solution that reduced measurement inputs by 15% with no loss of precision
- Enabled real-time measurement prediction in more use cases, cutting time and cost for end users
- Awarded 'Best Technical Skills' out of 50+ interns at the UCSD Computer Science Internship Symposium

Software Engineering Intern **SpendMend** **Feb 2021 – Oct 2023**

- Built and maintained software that automated data extraction from medical invoices using OCR, minimizing manual intervention and enabling scalable document processing
- Reduced false-positive invoice flags by 30%, improving accuracy and lowering human review burden
- Championed collaborative engineering practices - introduced Git version control, code review workflows, and deployment standards
- Automated extraction of 700,000+ invoices over the course of the internship, directly contributing to cost savings and operational efficiency

Skills

- Proficiency: Java, Python, Go, Rust, C++, Haskell, SQL, AWS, Azure, Git, Kubernetes, Apache Pinot, Kafka
- Coursework: Databases, Data Center Systems, Algorithms, Data Structures, Operating Systems, Linear Algebra, Computer Vision, Computer Architecture, Computability and Complexity, Systems Programming, Quantum Computing, Digital Circuits

Projects

- **Apache Pinot** (https://github.com/apache/pinot/commits/master/?author=ashishjayamohan) OSS contributions including query optimizer enhancements and data transformation features
- **Neural Network from Scratch (Java & Rust)** (https://github.com/ashishjayamohan/neural-network) Built foundational NN library with backpropagation and matrix operations
- **Zemax Output Support for SOC-210** (https://ashishjayamohan.github.io/files/general/Jayamohan.Ashish.2023.pdf) Won UCSD Symposium Technical Skills Award for improving reflectometer output pipeline
- **Teamwork in CS Education** (https://makecscount.com/Jayamohan2021.pdf) Co-authored paper on teamwork implementation and learning outcomes