Aadhithya Arun

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Education

University of Washington - Seattle	Expected Jun 2027
Bachelor of Science in Computer Science (GPA: 3.68 / 4.00)	*Seattle, WA*

Technical Skills

Languages: Java (4 yrs), Python (4 yrs), SQL (3 yrs), C++ (2 yrs), C (2 yrs), JavaScript/TypeScript (2 yrs), GoLang (1 yr)
Technologies: Flask, GraphQL, Spring Boot, AWS Lambda, S3, Bedrock, ECS, ECR, GitHub, Postgres, Azure SQL, Docker, React.js, Android SDK, Firestore, Pandas, Matplotlib, Selenium, Jupyter, WordPress, BeautifulSoup4
Concepts: Agile Methodology, Distributed Systems, Operating Systems, Databases, Computer Networks/Architecture

Experience

Amazon	Fall 2025
Software Development Engineer Intern	*Seattle, WA*
PayPal	Summer 2025
Software Engineer Intern, Backend	*San Jose, CA*

- Merchant Integrations Team

FedEx	Aug 2024 – Feb 2025
Software Engineer Co-op	*Seattle, WA*

- Developed **Python** tool scaling dispatch validation to **600+ FedEx hubs** with weekly GPS monitoring and error alerts
- Enhanced route analysis app with **ArcPy and GeoPy** achieving a **97% accuracy** in "at stop" and stem time reporting
- Optimized route solver in a **5 person Scrum team**, achieving **80% accuracy** in predicting stop times and speeds

Ballotpedia	Jun 2024 – Aug 2024
Software Engineer Intern	*Middleton, WI*

- Developed an **LLM** web scraper using **Python, AWS Bedrock, OpenAI** to parse **15k+** sites into tabular data
- **Eliminated 4k lines** of fragile parsing logic and **expanded data collection by 25%** for use by the editorial team
- Implemented full serverless **CI/CD pipeline** using **Github Actions, Docker, AWS ECR, ECS, and Lambda**

Projects

Distributed Key-Value Store | *Distributed Systems, Fault Tolerance, Consensus Algorithms*
- Built a **linearizable**, **sharded key-value store** in **Java** with **Paxos consensus** and replication **for fault tolerance**
- Implemented **exactly-once RPC** semantics, **leader election**, and **log compaction** for efficient state maintenance
- Designed **transaction system** supporting **cross-shard operations** with **two-phase commit** and **deadlock prevention**

SimpleDB | *Java, Transactions/Recovery, Database Systems*
- Built a complete **relational database** system in Java with **buffer management**, **query operators**, and **B+ tree indexing**
- Implemented **ACID-compliant transactions** using **two-phase locking**, **deadlock detection**, and **write-ahead logging**
- Developed **crash recovery system** ensuring data consistency through **transaction aborts** and **system failures**

Donor Management System | *Python Pandas, PostgreSQL, LookerStudio*
- Developed donation tracking system to track donations from **10+ platforms** using **Pandas** and **PostgreSQL**
- Automated thank-you emails and tax receipts for over **500+ donors** by leveraging **Gmail API**
- Designed dashboards in **LookerStudio** to analyze trends like donor retention and increase in revenue

Cognizant Gen AI Externship | *Hugging Face, Python, Jupyter Notebook*
- Built and fine-tuned **BERT model** using the **LoRA** technique to classify Yelp review sentiments on 5-point scale
- Processed training dataset of **5,000 Yelp reviews** using **HuggingFace** libraries
- Performed inference on restaurant reviews from Google, achieving **78% accuracy** in sentiment prediction

Leadership

Fundraiser and Executive Committee Member - Friends of Payir	Jun 2022 - Present