

Adithya Anand

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Education

- **MS, Computer Engineering** Sep '21 – Mar '23
University of California, San Diego
Relevant Courses Planned: GPU Programming, Principles of Computer Architecture, Operating Systems, Parallel Programming, Distributed Systems, Advanced Compiler Design, **Computer Architecture's Software Perspective***
- **B.E. (Hons.), Electrical and Electronics Engineering** Aug '15 – Jul '19
Birla Institute of Technology & Science (BITS), Pilani GPA: 8.63 / 10.00
Relevant Courses: Object Oriented Programming, Real Time Systems, Software for Embedded Systems, **Computer Architecture***, **Computer Programming***, Microprocessors & Interfacing
* acted as a Teaching Assistant for the mentioned courses

Technical Skills

Technologies: AWS Services – DynamoDB, EC2, SNS, SQS & Cloudwatch

Frameworks & Environments: Git, Spring, JUnit, Selenium, Agile Scrum, IntelliJ IDEA IDE, Unix, VIM

Programming Languages: Bash, Java, JavaScript, C++, Bluespec SystemVerilog, Verilog

Industrial Experience

Amazon: Software Development Engineer - 2 Aug '19 - Sep '21

- Designed, implemented and deployed a web application **built to scale up to 120K transactions per second with <0.001% errors**, and has **confirmed yearly savings of \$20.36MM**. This, along with multiple Engineering Excellence initiatives **led to my promotion to SDE - 2 in Q2 '21**.
- Engineering Excellence initiatives: Prevented Denial of Service scenarios, **improved fleet - wide host level metrics by an average 11.2%** by optimizing logging & tuning Garbage Collectors of legacy systems.
- Won the **Amazon Fulfillment Technology: Master of Delivery** award in Q3, 2020 for consistently designing and deploying a highly available and scaled application worldwide.
- Led the design & software changes in Amazon Fulfillment Technology for making our web applications completely accessible for blind and low vision warehouse associates, goal publicly tracked [here](#).
- Implemented the Scrum Agile Framework as my team's Scrum Master from Feb 2020 - May 2021.
- Mentored 2 two-month interns, **both of whom received Pre-Placement Offers** based on their work.

Invento Robotics: Software Development Intern May '17 - Jul '17

- Built a centralized web interface controlling the motor and maintenance functions of the startup's humanoid, Mitra.
- Created database solutions for logging Mitra's diagnostic data to help in troubleshooting.

Research Experience

School of Computing, NUS: Visiting Researcher Jan '19 - Jun '19

- Designed and synthesized hybrid processors in Bluespec SystemVerilog HDL to mimic the energy efficiency of an In-Order Core while having the processing efficiency of an Out-Of-Order Core.
- Automated the above HDL using bash scripts for extracting and building on AWS FPGAs, interconnecting S3 buckets, Elastic File Systems and split compilation between C4 (compute-centric) and F1 (generic) instances.

Academic Projects

Real Time Sensor Analytics for Advanced Process Control Jan '18 - May '18

- Designed & implemented an IoT scalable interface to gather data from sensors installed at a waste – water treatment site. Worked on its backend framework built with Flask & GCP's Firebase.
- This project was sponsored by the Bill – Melinda Gates Foundation.

Student's Welfare Division Web Application Dec '17 - Apr '18

- A web application for an administrative portal used officially by the students of BITS Pilani, backed by the institute.
- It was built on the django framework, with Python & JavaScript. The link to its repository can be found [here](#).