Aparajith Raghuvir

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EDUCATION

IIITDM KANCHEEPURAM
BTech in Computer Science and Engineering
June 2022 | Chennai, India
Cum. GPA: 9.28 / 10.00
Major GPA: 9.56 / 10.00

COURSEWORK

UNDERGRADUATE
Discrete Mathematics
Compiler Design
Linear Algebra
Probability Theory
Digital Image Processing
Advanced Data Structures and Algorithms
Human Computer Interaction
Analytics and Systems of Big Data
Object Oriented Programming
Computer Organization + Practicum
Computer Architecture + Practicum
Database Systems + Practicum
VLSI System Design + Practicum
Computer Graphics + Practicum
Computer Networks + Practicum
Operating Systems + Practicum

PROFESSIONAL DEVELOPMENT
Deep Learning Specialization by deeplearning.ai
Introduction to AI - Harvard's CS50
Data Science by Johns Hopkins on Coursera
Introduction to Machine Learning - NPTEL

SKILLS

PROGRAMMING
Over 5000 lines:
C • C++ • Python • R
Over 1000 lines:
MySQL • Verilog HDL • Assembly • MATLAB • Java
Familiar:
HTML • CSS • LaTeX

LANGUAGE SKILLS

PROFICIENT
• English
• Tamil (native)

SPOKEN PROFICIENCY
• Hindi

RESEARCH WORK AND PROJECTS

CATCHING FREE RIDERS IN THE RAILWAYS August 2020 - April 2021 | IIITDM, India
- Working project to help solve the rampant problem of free riders in Indian Railways
- A minimum viable product of a camera based person counter to compare number of passengers on trains with bookings
- Incentive based passenger reporting and companion app on ticket checker side to receive real-time info on zones of high infringement
- Tech: Python, Arduino, MobileNet

MATSIGHT | Software Engineering Intern at The MathWorks Inc
May 2021 - October 2021 | Bangalore, India
- An application that scrapes data relating to MathWorks products from social media such as Reddit and MATLAB Answers
- Provides meaningful insights and information to the UX and marketing teams
- Tech: Elasticsearch-Logstash-Kibana, Python

ARGUS IMPROVEMENTS | Security Engineer Intern at Zoom
Jan 2022 - May 2022 | Bangalore, India
- Parallelization imrpovements with dask on an internal tool that searches zoom logs
- Improvements in low level grep tool
- Net speed improvement of 50%
- Tech: Python, Dask, Apache Airflow

WORK EXPERIENCE

SECURITY ENGINEER INTERN AT ZOOM | Jan 2022 - May 2022

- Worked in the Security Monitoring and Logging team. Built Splunk apps to extract and process DDoS attack mitigation data from Cloudflare.
- Made speed improvements of 50% to Argus, an internal log search tool by improving the grepping and paralellisation.

SOFTWARE ENGINEER IN TEST INTERN AT MATHWORKS | May 2021 - October 2021

- Worked in the MATLAB HDL Coder Test Team. Built a tester for the MATLAB to System C automated code conversion command line workflow
- Built the first automated GUI tester for the HDL Coder Workflow