Sowndarya Krishnan Navaneetha Kannan

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EDUCATION

COLORADO SCHOOL OF MINES
MS Thesis in Computer Science
Expected Dec 2025 | Golden, CO
Cum. GPA: 3.85/4

MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE
BE in Electronics & Communication Engineering
Aug 2018 - July 2022 | Chennai, In
Cum. GPA: 8.56 / 10

LINKS

LinkedIn:// **krishnan-n**
Github:// **KrishnanN27**
My Research Lab:// **DataDrivenCPS lab**
Dev Post:// **KrishnanN27**

RELEVANT COURSES

GRADUATE
Algorithms
Principles of Programming Language
Operating Systems
Adv. Computer Architecture

SKILLS

PROGRAMMING
Python • Flutter
Android app development • Linux •
SQL • Java • C
• JavaScript (Node.js, Nest.js,
Angular.js, React, TypeScript) •
Firebase • Git
Devops • AWS • Terraform
HTML/CSS •SHACL • SHACL-AF •
MS Office • Ocaml • LaTeX

CERTFICATIONS
• Cyber Security: From Beginner to Expert, *Udemy*
• Machine Learning, Cryptography & Introduction of Statistics, *Stanford University*
• Introduction of Data Science in Python, *University of Michigan*

PUBLICATIONS

IN PROGRESS.....

PROFESSIONAL EXPERIENCE

NCOMPASS TECH STUDIO PVT. LTD | Software Engineer
May 2021 – May 2022 | Chennai, India
- Android Developer with expertise in Java, Flutter, Agile development, MySQL, and JavaScript frameworks.
- Led UI change initiative for Android app, contributing to substantial increase in downloads, surpassing 1,000+ on Play Store.
- Developed custom components resulting in a 25% increase in seamless integration across various business groups
- Proficient in Git, unit testing, and test-driven development (TDD), ensuring an 98% bug-free code release.

RESEARCH

DATA-DRIVEN CPS LAB | Research Assistant
Aug 2023 – Present | Golden, CO
- Currently working at the **Data-Driven CPS Lab** under the guidance of **Dr. Gabe Fierro**, focusing on research to accelerate SHACL validation and inference in RDF graphs.
- Developing a novel algebra for SHACL validation and inference to streamline and enhance the manipulation of underlying operations.

SLOAN PROJECT | Backend Engineer
Aug 2023 – Present | Leadville, CO
- Working collaboratively with Mechanical and Electrical Engineering students and professors, as well as scientists from the NREL,on this research project.
- Leading the architecture of backend solutions capable of handling large volumes of data, enabling customizable data retrieval with varying averaging intervals to meet diverse needs.
- Played a key role in developing a new API service, which improved the efficiency of complex data transactions and operations.

NOTABLE AWARDS & PARTICIPATION

UNDERGRADUATE RESEARCH SYMPOSIUM | Judge
April 2022 | CO, US
- Acted as a judge for a research poster presentations.

ECHOES OF EQUALITY | BlasterHacks Hackathon Winner
Feb 2022 | Colorado School of Mines
- Awarded **1st Place in the Beginner Category** and **LGBTQIA+ Category Winner** for developing an impactful social platform.
- For more details on the project, visit **Echoes of Equality on DevPost**.

C-MAPP EVENT | Presenter
Jan 2022 | CO, US
- Delivered a compelling 45-second research pitch and earned recognition.

MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE
Aug 2018 - July 2022 | Chennai, India
- Acted as **Hostel Representative** and **Vice President** of the ECE Department, leading departmental initiatives and events.
- Organized the college symposium as **Symposium Coordinator**, orchestrating a series of events and games, and providing a platform for students to showcase their talents to a diverse audience from various universities and institutions.

For an additional list of my projects, please refer to my GitHub profile.