

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

CERTIFICATIONS

- 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
- Solely worked on development of applications, websites, and integrated various technologies.
- Proficient in Git, unit testing, and test-driven development (TDD), ensuring an 98% bug-free

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

- Implementing a secure authentication system using JWT (JSON Web Tokens) with Python's FastAPI to facilitate safe user interactions.
- Architecting backend solutions for bulk data handling, enabling customizable data retrieval with varying averaging intervals.
- Contributing to the development of a novel API service that strategically simplifies complex data transactions and operations.

NOTABLE AWARDS & PARTICIPATION

ECHOES OF EQUALITY | BLASTERHACKS HACKATHON WINNER

Year | Colorado School of Mines

- Awarded **1st Place in the Beginner Category** and **LGBTQIA+ Category Winner** for developing an impactful social platform.
- Created **Echoes of Equality**, an app to support the LGBTQIA+ community.
- 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.