Sowndarya Krishnan Navaneetha Kannan

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Education

Colorado School of Mines	*Colorado, USA*
MS in Computer Science	*May 2025*
GPA: 3.6 / 4.0	
Anna University	*Chennai, India*
B.E in Electronics & Communication Engineering	*Aug 2022*
GPA: 8.56 / 10	
Graduated: First Class with Distinction	

Relevant Courses: Artificial Intelligence, Algorithms, Principles of Programming Languages, Operating Systems, Advanced Computer Architecture, Discrete Math, Advanced Machine Learning & Theory of Computation

Research Experience

[Data-Driven CPS Lab ↗](), Research Assistant *Golden, CO*
Aug 2023 – Present

- Researching SHACL validation and inference under Dr. Gabe Fierro, focusing on RDF graph acceleration.
- Helping improve scalable data validation processes that benefit real-time applications in industries like IoT and Smart Cities.
- **Technologies used:** RDF, SHACL, SHACL-AF, Python, Git, Linux, Bash

Interdisciplinary Project Funded by *Sloan Foundation ↗* *Leadville, CO*
Frontend Developer *May 2024 – Present*

- Collaborated with Mechanical and Electrical Engineering teams to design and develop frontend solutions for managing community energy consumption data.
- Built and enhanced a **community dashboard** with real-time visualizations, ensuring usability and accessibility for diverse user groups.
- Integrated advanced React-based components to enable customizable and responsive user interactions.
- Followed accessibility guidelines to create **inclusive UI/UX designs**, ensuring usability for diverse user groups.
- **Technologies used:** React, Firebase, AWS SNS (in progress)

Frontend system webpage is confidential.

Interdisciplinary Project Funded by *Sloan Foundation ↗* *Leadville, CO*
Backend Engineer *Jan 2023 – May 2024*

- Designed and implemented **backend solutions** for handling large volumes of time-series data related to energy consumption.
- Developed scalable data pipelines and optimized data retrieval for real-time analysis of time-series datasets.
- **Technologies used:** VPN, Docker, PostgreSQL, Firebase, Grafana

[BrickSchema Ontology ↗](), Contributor *Remote*
June 2024

- Developed and integrated a search functionality, solving a long-standing issue, now widely used by people globally.
- **Technologies used:** JavaScript (Fuse.js), Git

Professional Experience

NCompass Tech Studio Pvt. Ltd ☑, **Mobile Engineer, Frontend Engineer & Cloud Engineer**

Chennai, India
May 2021 – May 2022

- Developed mobile apps & cloud solutions using Kotlin, Flutter, & Android development.
- Led UI change for Android app, resulting in 1,000+ downloads increase on Play Store.
- Developed custom components, driving a 25% increase in integration across business groups.
- Proficient in Git, unit testing, & TDD, ensuring 98% bug-free release.
- **Technologies used:** Android App Dev, Kotlin, Flutter, JavaScript (Node.js, React), App Dev, AWS, GCP, Terraform, Java, Python, Firebase, Git, Docker, Grafana, Jira, DevOps, Linux, SQL, HTML/CSS

Notable Awards & Participation

Best Poster Presentation Award — CMAPP Honors Event

Colorado School of Mines
Jan 2025

- Won the **Best Poster Presentation Award** at the *CMAPP Honors Event* for delivering the **best pitch** and presenting the **best poster**.

Echoes of Equality, BlasterHacks Hackathon Winner

Colorado School of Mines
Feb 2022

- Achieved **1st Place** in Beginner Category & LGBTQIA+ Category for developing an impactful social platform.
- Project details available at: *https://devpost.com/software/echoes-of-equality* ☑

Undergraduate Research Symposium — Judge (x2)

Colorado School of Mines
Sept 2024 & April 2022

- Served as a Judge in the *Undergraduate Research Symposium*, evaluating and providing feedback to participants.
- Judged research poster presentations.

Best Presentation Award — ECUBE

Meenakshi Sundararajan Engineering College
March 2022

- Received the **Best Presentation Award** at the *ECUBE* event for delivering a compelling technical presentation.

Meenakshi Sundararajan Engineering College — Hostel Representative & Vice President, ECE Department

Chennai, India
Aug 2018 – July 2022

- Led departmental initiatives & events as *Hostel Representative* & *Vice President*.
- Organized college symposium as *Coordinator*, hosting events & games, providing a platform for students to showcase talents to a diverse audience from various universities & institutions.

Technologies

Programming: Python, Flutter, Android app development, Linux, SQL, Java, C, JavaScript (Node.js, Nest.js, Angular.js, React, TypeScript), Firebase, Git, DevOps, AWS, GCP, Terraform, Azure, HTML/CSS, Docker, Grafana, SHACL, SHACL-AF, MS Office, OCaml, LISP, LaTeX

Certifications:

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