SOWNDARYA KRISHNAN NAVANEETHA KANNNAN

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EDUCATION

Colorado School of Mines, *MS in Computer Science* | Colorado, USA   GPA: 3.7 / 4.0   May 2025
Anna University, *B.E in Electronics & Communication Engineering* | Chennai, India   GPA: 8.56 / 10   Aug 2022

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

SKILLS

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)

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

SLOAN PROJECT, *Full Stack Developer* | **Leadville, CO**   Aug 2023 – Present

- Collaborated with Mechanical and Electrical Engineering teams to develop backend and frontend solutions for managing community energy consumption data.
- Architected backend solutions for handling large volumes of data, allowing customizable data retrieval.
- Built and enhanced a community dashboard with real-time visualizations, ensuring usability and accessibility for all users.

Technologies used: Backend — VPN, Docker, PostgreSQL, Firebase, Grafana | Frontend — React, Firebase, AWS SNS (in progress)

The frontend system webpage is confidential.

BRICKSCHEMA ONTOLOGY, *Contributor* | **Remote**   June 2024

- Developed and integrated a search functionality using Fuse.js, solving a long-standing issue, now widely used by scientists globally for efficient RDF data querying.

Technologies used: JavaScript (Fuse.js), RDF, SHACL, SHACL-AF, Python, 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 dev.
- Led UI change for Android app, resulting in 1,000+ downloads increase on Play Store.
- Developed custom components, driving 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

UNDERGRADUATE RESEARCH SYMPOSIUM, *Judge* | **CO, US**   April 2022
Judged research poster presentations.

ECHOES OF EQUALITY, *BlasterHacks Hackathon Winner* | **Colorado School of Mines**   Feb 2022
1st Place in Beginner Category & LGBTQIA+ Category for developing an impactful social platform.

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.