

SOWNDARYA KRISHNAN NAVANEETHA KANNAN

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Result-driven graduate with 2+ years of work experience seeking full-time roles starting May 2025

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
- **Research & Competitions:** Judged at the *Undergraduate Research Symposium* (Apr 2022), 1st Place at *BlasterHacks Hackathon* (Feb 2022) for developing an impactful social platform
- **Leadership:** *Hostel Representative* and *Vice President* at Meenakshi Sundararajan Engineering College (Aug 2018 – Jul 2022), organizing departmental events and college symposiums, engaging with students across universities

PROFESSIONAL EXPERIENCE

NCOMPASS TECH STUDIO PVT. LTD, Mobile Engineer & Cloud Engineer | **Remote** May 2021 – May 2022

- Developed mobile applications and cloud solutions using Kotlin, Flutter, and Android development.
- Led UI change initiative for Android app, resulting in a 1,000+ increase in downloads on Play Store.
- Developed custom components, leading to a 25% increase in integration across business groups.
- Proficient in Git, unit testing, and test-driven development (TDD), achieving a 98% bug-free release.

Technologies used: Android App Development, **Kotlin**, Flutter, JavaScript (Node.js, React), Application Development, AWS, Terraform, Java, Python, Firebase, Git, Docker, Grafana, Jira, DevOps, Linux, SQL, HTML/CSS

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.
- Developing a novel algebra to streamline SHACL operations and enhance validation processes.
- For more information, visit the lab's official webpage.

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.
- Developed a new API service that significantly improved the efficiency of data transactions.
- 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 webpage for the frontend system is currently under development and disclosed.

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.
- For more information, visit the project's official webpage.

Technologies used: JavaScript (Fuse.js), RDF, SHACL, SHACL-AF, Python, Git

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, Docker, Grafana, SHACL, SHACL-AF, MS Office, OCaml, 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

Publications In Progress

To know more about my projects, please check out my **GitHub**.