

Mihir S. Savkar

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EDUCATION

University of Virginia: Bachelor's in Computer Science & Math **Exp Graduation:** *May 2025*

- **Organizations:** ColorStack, Business and AI Club @ UVA, Chess Club, Up & Up Festival
- **Relevant Skills:** Algorithms, Probability, Machine Learning, AI, Databases, Linear Algebra

EXPERIENCE

Percy: Founding Software Engineering Intern *July 2024 - Aug 2024*

- Developed **full-stack** sleep behavior analysis platform using **React, Node, PostgreSQL, AWS**
- Optimized **API performance (30%)**, refactored **backend architecture**, and reduced database queries (**40%**)
- Built, integrated **RESTful APIs** with **caching**, and improved UI/UX for better user experience

UVA Biocomplexity Institute: AI Research Intern *May 2024 - July 2024*

- Optimized **GPU parallel processing (40%)** using **NCCL, CUDA, OpenMPI**, and **Cylon** for large-scale AI models
- Engineered **high-speed inter-GPU communication**, reducing **processing overhead by 35%**
- Improved **distributed computing workflows**, cutting **memory usage and compute time**

Google: Software Engineering Program *March 2024 - May 2024*

- Strengthened **data structures, algorithms**, and **problem-solving** with **Google engineers** through hands-on projects
- Developed **optimized solutions in Java & Python**, applying **linear optimization & dynamic programming**
- Received **1:1 mentorship** from Google engineers, refining **system design & coding efficiency**

Premise Data: Data Engineering Intern *June 2022 - Jan 2024*

- Automated and **market-research data pipelines** with **Python, SQL, AWS**, reducing operational costs (**40%**)
- Designed and optimized **ETL pipelines**, cutting **data processing time by 90%**

PROJECTS

Alea|Flask, Python, OpenAI, Tailwind *Feb 2025 - Present*

- Developing an AI-driven compliance platform using **React, Flask, Tailwind**, and **OpenAI API**
- Implementing **LLM-powered regulatory analysis**, automated risk detection, and policy enforcement workflows

ResumeRescue|Django, Python, AWS, OpenCV, SQL *May 2024 - Present*

- Developed a **resume-enhancing web app** with **Django, AWS-hosted SQL, OpenAI API**
- Implemented **OpenCV** for image processing, **NLP** for content analysis, and **real-time feedback**
- Building responsive **dynamic front-end interfaces** using **HTML/CSS** and **JavaScript**.

InfrastructureReport|Django, AWS, Heroku, PostgreSQL *Jan 2024 - May 2024*

- Built a **whistleblower platform** for damaged infrastructure with **17,000+ users**
- Deployed **backend on AWS & Heroku**, reducing **downtime to under 0.1%**
- Implemented **secure user authentication**, **real-time issue tracking**, and **scalable backend services**

TECHNICAL SKILLS

- **Languages:** Python, C++, Java, JavaScript, SQL
- **Frameworks:** Django, React.js, Node.js, Flask
- **Cloud & DevOps:** AWS, Docker, GCP, Heroku
- **Databases:** PostgreSQL, MongoDB, SQL, Firebase