

# Mihir S. Savkar

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## EDUCATION

### University of Virginia

Charlottesville, VA

*Bachelor's Degree - Computer Science and Mathematics*

*December 2025*

- **Computer Science:** Theory of Computation, Algorithms, Machine Learning, Database Systems, Computer Architecture, Software Development.
- **Mathematics:** Abstract Algebra, Complex Analysis, Probability, Ordinary Differential Equations, Advanced Linear Algebra, Real Analysis

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript, SQL, HTML/CSS, C++

**Developer Tools:** Django, React.js, Git, AWS, GCS, Docker, MongoDB

## EXPERIENCE

### Percy

July 2024 – August 2024

*Founding Software Engineering Intern*

*Washington, D.C.*

- Developing a sophisticated passive collection solution for analyzing human sleep behavior, integrating our novel sleep-data collection device with **AI/ML** solutions and **full-stack development** using **React**, **Node.js**, **JavaScript**, **SQL**, and cloud services.
- Developing and testing APIs using **Postman**, ensuring direct data access, while reducing clutter by over 50% and increasing API efficiency by up to 30%.

### UVA Biocomplexity Institute

May 2024 – July 2024

*High-Performance Computing and AI Research Intern*

*Charlottesville, VA*

- Integrating **Nvidia Collective Communication Library (NCCL)** with data-processing toolkit **Cylon** to optimize distributed data processing operations using **C++**, **Python**, and **CUDA**.
- Developing methods to leverage **NCCL** for inter-GPU communication and **OpenMPI** for inter-CPU communication within Cylon, enabling efficient parallel computing.

### Premise Data

June 2022 – Aug 2023

*Data Engineering Intern*

*Washington, D.C.*

- Developed data pipelines utilizing **Python** and **Google Cloud Platform** to streamline data into **API** for client campaigns, automating **8+ hour manual process** to **reduce costs by over 40%**.
- Utilized **Python**, **Docker** to automate **10+ minute data-collection workflows** into instant processes allowing for greater access across cross-functional teams, achieving **90%+ time reduction**.

## PROJECTS

### ResumeRescue | Django, Python, AWS, OpenCV, HTML/CSS, SQL

May 2024 – Present

- Developing a Resume-enhancing web application using **Python (Django)**, and AWS-hosted SQL servers.
- Integrating precise **computer-vision-based** image processing backend including **OpenCV**, **NLP libraries** with OpenAI API to highlight existing and issue user-focused recommendations.
- Designing dynamic and easy-access front-end interfaces using **HTML/CSS**, and **JavaScript**.

### InfrastructureReport | Django, AWS, Heroku, Python, HTML/CSS

Jan 2024 – May 2024

- Developed a whistle-blower application for reporting damaged infrastructure, serving **17,000 users**, using **Django** and **Amazon Web Service S3** for secure file storage.
- Ensured cloud deployment with **Heroku**, and maintained a **PostgreSQL** database.
- Collaborated on feature development and interface design using **Python (Django)**, **HTML**, and **CSS**.