Ishaan Sathaye

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EDUCATION

- **California Polytechnic State University, San Luis Obispo** — San Luis Obispo, CA
  BS in Computer Science-AI/ML and minor in Data Science — *Sep. 2021 – Present*

EXPERIENCE

- **Lucid Motors** — Newark, CA
  Software Engineer Intern — *June 2024 - September 2024*
  - **Self-Healing Workflow**: Designed and implemented Golang-based automation features for virtual machine management that streamlined system operations and reduced overhead costs.
  - **Object Storage Cost Optimization**: Engineered a Python-based data analysis tool to optimize data storage usage, resulting in a 20% reduction in storage costs.

- **Amazon Web Services Inc.** — Herndon, VA
  Software Engineer Intern — *June 2023 - September 2023*
  - **Keycloak Authentication**: Enhanced the integration of AWS services with Keycloak by developing secure, developer-friendly authentication features in accordance with NIST and AWS security standards in Typescript.
  - **Port Obfuscation**: Architected modifications to application connectivity to enhance security and stability, including dynamic configuration updates of ECS tasks and RDS clusters that minimized downtime during deployments.
  - **AWS Certified**: Certified in Data Analytics Specialty.

  Software Engineer Intern — *June 2022 - September 2022*
  - **Serverless Application**: Developed a Python-based serverless application using AWS Lambda, DynamoDB, and CDK to automate meeting generation for Amazon employees. Focused on designing scalable, efficient code and implementing robust error handling to ensure reliability.
  - **Code Pipeline**: Developed integration solutions that streamlined code management and deployment processes, including a pipeline that mirrored Gitlab.
  - **4x AWS Certified**: Certified in Cloud Practitioner, Solutions Architect Assoc., Developer Assoc., ML Specialty

- **California Polytechnic State University** — San Luis Obispo, CA
  Research Assistant — *September 2023 - June 2024*
  - **Research Assistant**: Developed CSB Deep model that sharpens microscopic images from sparse wide field images.

  Hack4Impact Technical Lead — *September 2022 - June 2023*
  - **Veggie Rescue Team**: Managed a team of 5 developers to maintain and improve a progressive web-app for non-profit Veggie Rescue.
  - **UI and Database Design**: Redesigned database architecture to optimize data access speeds and scalability for user-centric applications.

  Hack4Impact Software Developer — *September 2021 - June 2022*
  - **Veggie Rescue App**: Created admin login and finance spreadsheet page for non-profit Veggie Rescue using Typescript and Tailwind CSS.

- **Cisco Systems, Inc.** — San Jose, CA
  High School Software Developer Intern — *June 2020 - August 2020*
  - **INT Collector**: Designed an innovative In-Band Telemetry Collector for Cisco ML Team
  - **Server/Client Program**: Developed software the separates and received IP packets through byte stream.
  - **Parser Program**: Parsed IP packets and extracted data to be sent to ML model.

PROJECTS

- **Elephant Seal Tracking**: Full stack web application to aid marine biologists in tracking and classifying elephant seals using Flask and Roboflow.
- **F1 Intelligent Racing**: Simulated cars optimally racing around a track using reinforcement learning and evolution.
- **Tulu Language Translation Support**: Creating a learning/translating application for spoken languages like 'Tulu'.
- **Personal Movie Recommender**: Collaborative filtering to recommend movies based on my watch history and movie script.