

# Chinmay Purushottam

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## EDUCATION

<b>University of Michigan</b> <i>B.S. in Computer Science &amp; Cognitive Science. GPA: 3.5/4.0</i>	Ann Arbor, MI May 2025
<b>Relevant Coursework:</b> Machine Learning, Computer Vision, Web Systems, Database Management Systems, Computer Networks, Systems Programming, Data Structures & Algorithms, Computational Linguistics, Artificial Intelligence	

## EXPERIENCE

<b>Software Engineer</b> <i>Chaima AI (a16z Speedrun)</i>	Santa Monica, CA June 2025 – Oct 2025
• Built Chaima's main web app in <b>TypeScript</b> for user onboarding and personalized date planning experiences.	
<b>Computer Vision Co-op Engineer</b> <i>AirWorks Solutions, Inc.</i>	Boston, MA May 2024 – Jul 2024
• Created an <b>object detection pipeline</b> to detect components on telecom poles from ground-level panoramas.	
<b>Computer Vision Engineer Intern</b> <i>AirWorks Solutions, Inc.</i>	Boston, MA May 2023 – Jul 2023
• Deployed DOTA <b>aerial detection</b> model on AirWorks' proprietary data on <b>AWS EC2</b> with <b>84%</b> accuracy.	
• Improved <b>image-processing &amp; tiling</b> algorithms by <b>4%</b> via hyperparameter tuning & adaptive tiling.	
• Tooling & automation for <b>OpenCV/TorchVision/PyTorch</b> : CLI + scripts, CI checks, & synced environment.	

## LEADERSHIP

<b>Project Lead - Reinforcement Learning Curriculum</b> <i>Michigan Student Artificial Intelligence Lab (MSAIL)</i>	Ann Arbor, MI Dec 2023 – Dec 2024
• Taught 30+ students <b>Python</b> fundamentals like numpy, pandas, matplotlib, <b>Gymnasium</b> , & <b>Scikit-learn</b> . Explored Neural Networks, Deep-Q Learning, Hyperparameter tuning & organized RL projects.	

## PERSONAL PROJECTS

<b>Anime Recommender</b>   <i>Python, scikit-learn, Postgre/SQLAlchemy, Streamlit, FastAPI</i>	May 2025 – Jul 2025
• Built a personalized anime recommender using <b>RandomForest</b> . Trained on genres, demographics, user history, and metadata vectorized via <b>MultiLabelBinarizer</b> from the <b>Jikan (MyAnimeList) API</b> .	
<b>Smart Calendar</b>   <i>Python, Streamlit, Google Calendar API, Canvasapi, OAuth, CSS, HTML</i>	Jan 2024 – Apr 2024
• Developed a task management app for students with ADHD to streamline personal and academic scheduling.	
<b>Search Engine</b>   <i>Python, Javascript, MapReduce, RESTAPI, Git, AWS</i>	Sep 2023 – Dec 2023
• Built MapReduce pipeline for an <b>inverted index</b> of web pages, returning JSON search results via RestAPI.	
<b>Social Media Clone</b>   <i>Python, JavaScript, React, RestAPI, HTML, CSS, Jinja, Cypress</i>	Aug 2023 – Nov 2023
• Built Instagram clone using dynamically rendered client-side pages, achieving <b>95%</b> test coverage on Cypress.	
• Implemented authentication and real-time features, supporting concurrent usage by <b>1000+</b> simulated users.	