Ivan Cabrilo

Rochester, NY | ivancabrilo.34@gmail.com | (585) 303-2458 | LinkedIn | GitHub | ivanc.org

EDUCATION

University of Rochester — Rochester, New York
Bachelor of Science in Computer Science & Bachelor of Arts in Business — *August 2022 – May 2026*

- GPA: 3.66/4.00
- Honors: Whipple Science Scholarship ($12,000/year), Rochester National Grant ($45,000/year), Shelby Davis UWC Scholarship Award ($30,000/year)
- Clubs: Computer Science Undergraduate Club, Google Developer Club, EA @ UR, Bouldering club

TECHNICAL SKILLS

- Programming: Python, Java, C, TypeScript, JavaScript, SQL, R
- Libraries: React, Hugging Face, NumPy, MongoDB, Pandas
- Certifications: ML by Stanford University, CodePath Web Dev, CITI
- Frameworks: Next.js, Figma, PyTorch,
- Languages: Serbian, English, Spanish, German
- Cloud: AWS, Google Colab; Version Control: Git

ENTREPRENEURSHIP

Sorriso.care
Co-Founder & CTO — *April 2024 – Present*

- Launched a tech startup focused on developing medical tourism in Montenegro and digitalizing private clinics
- Developed a full stack software web app that enables our partnering clinics to easily interact with foreign customers
- The service uses React, MongoDB, AWS, FastAPI, Next.js to enhance customer acquisition with user-friendly website and simple payment and scheduling systems
- Negotiated a deal with clinic owners to secure a 15% share of the total treatment price per customer acquired by Sorriso.

RESEARCH

Rochester Human Computer Interaction Lab — Rochester, New York
Undergraduate Research Assistant
PARK Project — *September 2023 – Present*

- Fine-tuned pre-trained Machine Learning models from HuggingFace using PyTorch
- Built user guide for a PARK web app using React, TypeScript and Google MediaPipe for Face Landmark Detection
- Trained WaveLM and V-JEPA on 300 speech and 500 video recordings to extract audio and visual features related to Parkinson's disease; mapped both features into unified embedding space by training a multimodal encoder.
- Fused the audio and visual features using a multimodal integration layer in Python, employing a transformer-based architecture to learn interactions between modalities, achieving 75% accuracy in classifying Parkinson's disease patients

Project Sophie AI — *January 2023 – August 2023*

- Joined a team of PhD students in an agile setting to develop an interactive AI-driven virtual 'patient' bot
- Enhanced AI's interface reliability by conducting speech to text data analysis using MacWhisper, leading to a significant 18% improvement in the software's detection capacity

EXPERIENCE

Cikom — Podgorica, Montenegro
Software Engineer Intern — *June 2023 – August 2023*

- Implemented a robust relational database system for customer management, achieving a 20% reduction in update time
- Helped redesign SQL server, accelerating data analytics capabilities and query optimization by 17%
- Made an efficient inventory management system with SQL, improving inventory accuracy and cutting operational costs by %5

Funko Dojo — Glen Rock, New Jersey
Software Engineer Intern — *November 2022 – January 2023*

- Leveraged AWS S3 as a key component in the development of a Python web scraping framework
- Optimized product monitoring modules with Python Requests & Slack API, resulting in 25% faster response time

Event and Classroom Management — Rochester, New York
Desk-Technician — *March 2023 – May 2024*

- Provide prompt technical support to faculty and staff, ensuring functional hardware systems and server connectivity

PROJECTS

HackHarvard — Boston, Massachusetts

- Developed CommonPrompt, an open source app that overcomes ethical challenges of GPT-3.5 chatbot
- App collected users' data and fine-tuned GPT to prevent jail breaking that gave harmful information away
- Deployed a dynamic web app utilizing Flask and JavaScript, integrating OpenAI's API, hosted on Heroku.

TEACHING EXPERIENCE

CSC 172 – Data Structures & Algorithms

AWARDS

Schwarz Discover Grant – University of Rochester