Ivan Cabrilo

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EDUCATION

University of Rochester   Rochester, New York
Bachelor of Science in Computer Science & Bachelor of Arts in Business   *August 2022 - May 2026*
- GPA: 3.5/4.0
- Honors: Whipple Science Scholarship ($12,000/year), Rochester National Grant ($45,000/year), Shelby Davis UWC Scholarship Award ($40,000/year)
- Clubs: Computer Science Undergraduate Club, Google Developer Club, EA @ UR

SKILLS

- CS Languages: Python, Java, HTML, CSS, Java Script, SQL, R
- Libraries: Pandas, Turtle Graphics, NumPy, Tkinter, Smtplib, Amazon Web Services, PyTorch
- Certification: Machine Learning by Stanford University, CodePath Web Development
- Languages: Serbian, English, Spanish, German

EXPERIENCE

Rochester Human Computer Interaction Lab   Rochester, New York
Undergraduate Research Assistant at Project Sophie   *January 2023 - Present*
- Joined a team of PhD students in an Agile setting to develop an artifical intelligence (AI)-driven virtual 'patient' designed to enhance the capability of doctors in communicating end-of-life options
- Enhanced AI's interface reliability by conducting deep emotional analysis of patient-doctor interactions using MacWhisper, leading to a significant 18% improvement in the software's capacity to detect empathy, explicitness, and empowerment
- Implemented GPT-3 chatbot for simulating end-of-life scenarios, using PyTorch for model development
- Built user guide for a web app using React and Google MediaPipe for Face Landmark Detection

Cikom   Podgorica, Montenegro
Software Engineer Intern   *June 2023 - August 2023*
- Designed and implemented a robust relational database system (Amazon RDS) for customer management, optimizing queries and leading to enhanced data analytics capabilities and decision making
- Created an efficient inventory management system with SQL, improving inventory accuracy and cutting operational costs by 20%

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
- Developed product monitoring modules with Python Requests & Slack API, resulting in 25% faster response time to product alerts

Event and Classroom Management   Rochester, New York
Desk-Technician   *March 2023 - Present*
- Provide prompt technical support to faculty and staff, ensuring functional classroom settings
- Real-time troubleshooting of hardware systems, and server connectivity problems.

PROJECTS

HackHarvard
- Developed CommonPrompt, an open source app that overcomes ethinical challenges of GPT-3.5 chatbot
- App collects users' data and fine-tunes GPT to prevent jailbreaking and giving harmful information away
- Deployed a dynamic web app utilizing Flask and JavaScript, integrating OpenAI's API, hosted on Heroku.

Rain alert app
- Developed an SMS rain notifier using Python, Twilio and OpenWeather APIs and deployed to AWS EC2

Aspirin synthesis research | Spectrophotometric Analysis
- Conducted a 4 months research and wrote an 18 pages Research Paper to investigate the behavior of different solvents on Aspirin purity during recrystalization process