Alex Rasla

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EDUCATION

University of California, Santa Barbara, Santa Barbara, CA   Expected Graduation: June 2022
M.S. in Computer Science
B.S. in Computer Science | GPA: 3.75
Relevant Coursework: Capstone, Bionic Vision, Deep Learning for Machine Translation, Advanced Data Structures and Algorithms
Awards/Certificates: HRL Fellowship Recipient, Technology Management Certificate, Dean's Honors List

PERSONAL PROJECTS

SocialSensor, UC Santa Barbara   *September 2020 - Present*
- A video conferencing web application for people w/ autism that detects real-time sentiment of participants using machine learning
- Utilized React, Twilio, Python, and facial and speech sentiment models to get accurate sentiment of users; Agile development

NavSB, UC Santa Barbara   *April 2019 — June 2019*
- Created an interactive map of the UCSB campus and the surrounding area that uses Augmented Reality to allow easier navigation throughout campus
- Learned and developed code in Swift using Xcode, mastered Apple's ARCL Kit and MapKit, and integrated the Mapbox library

Instruction Pipeline Prediction, UC Santa Barbara   *January 2021 — Present*
- An exploratory research project uses ML to predict the final state of a microarchitecture's pipeline given a block of instructions
- Implemented using a LSTM model

Personalized Email Script, Irvine CA   *June 2020*
- A Python email script that I use to schedule, automate, and personalize my networking meetings
- Tracks amount of emails sent, date, name of the person, company, and whether a response was received in MongoDB

WORK EXPERIENCE

HRL Laboratories, *Masters Intern,* Malibu, California   *June 2021— Present*
- Developed a convolutional LSTM autoencoder to detect novel scenarios for an autonomous driving system
- Tuned the individual parameter layers and a created custom loss function in Tensorflow to optimize its reliability and stability
- Ran dozens of CARLA simulation tests to evaluate the accuracy and applicability of the system in real world scenarios

Wimet, *Software Development Intern,* Buenos Aires, Argentina   *June 2019 — August 2019*
- Worked alongside the CEO and CTO/Lead Developer to enhance the startup's website
- Created the backend for their administrative site, allowing the company to easily access their events
- Learned to use MySQL, coded in HTML, JavaScript, PHP and utilized the Laravel framework

NAVCO Security, *Computer Technician Intern*, Anaheim, CA   *June 2018 — August 2018*
- Spearheaded a time-sensitive security system upgrade project for Wells Fargo
- Programmed hundreds of hard drives used for the project
- Repaired dysfunctional and/or damaged DVR software and hardware

LEADERSHIP

UCSB Department of Computer Science, *Peer Advisor*   *September 2019 — June 2020*
- Student advisor and departmental assistant for the UCSB computer science department
- Helped students plan schedules and change majors, assisted faculty with logistical issues, informed undergraduates about campus opportunities

SKILLS

Programming: Python, C++, JavaScript, Java, Swift, C#, CSS, HTML, MIPS Assembly
Interests: Machine Learning, Computer Vision, Computer Security, Cloud Computing, Distributed Systems, Cryptocurrency, IoT
Technologies: Tensorflow, Docker, OpenCV, Node.js, ARKit, MySQL, Laravel, PHP, Mapbox, MongoDB, Postgres SQL
Languages: Fluency in English, Slovak, and Conversational Spanish