BRYON TJANAKA

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EDUCATION

University of Southern California • Los Angeles, CA — Aug. 2020 - Present
Ph.D. Computer Science • Advisor: Stefanos Nikolaidis

University of California, Irvine • Irvine, CA — Sept. 2017 - Jun. 2020
B.S. Computer Science (AI specialization) • **GPA: 4.0/4.0** • ICS Honors • Regents' Scholar

EXPERIENCE

Google, Inc. • Mountain View, CA — Jun. 2020 - Aug. 2020
Software Engineering Intern
- Reduced Ads Serving costs by rearranging a backend pipeline

Intelligent Dynamics Lab • UC Irvine (PI: Professor Roy Fox) — Oct. 2019 - Jun. 2020
Undergraduate Researcher
- Designed and tested a novel reinforcement learning algorithm using RLlib and PyTorch

Google, Inc. • Mountain View, CA — Jun. 2019 - Sept. 2019
Software Engineering Intern
- Implemented, optimized, and evaluated multithreaded affinity clustering, a scalable clustering algorithm

Mobley Lab • UC Irvine (PI: Professor David Mobley, Graduate Mentor: Jessica Maat) — Oct. 2018 - Jun. 2020
Undergraduate Researcher
- Built a pipeline for selecting datasets from databases of millions of molecules

Google, Inc. • Mountain View, CA — Jun. 2018 - Sept. 2018
Engineering Practicum Intern
- Developed and documented a tool to evaluate Google Assistant extensions by analyzing responses to 1000's of queries

LEADERSHIP & SERVICE

ACM, UC Irvine Chapter — Sept. 2017 - Feb. 2020
Internal Vice President, Competitor
- Collaborated in teams to solve algorithm problems in ICPC, IEEExtreme, & Google Hash Code
- Organized campuswide competitions and semiweekly meetings to train other students to compete

Google Girl-Powered VEX Robotics Workshop • Mountain View, CA — Jul. 2017, Aug. 2018, Jun. 2019
Speaker, Volunteer
- Introduced hundreds of middle school girls to VEX Robotics by helping them build and program their first robot

PROJECTS

Neural Networks and Deep Learning Course Project: Bird Audio Detection — Apr. 2020 - Jun. 2020
- Led a team of 4 to analyze feature selection in bird sound detection with a PyTorch convolutional neural network

HackUCI V Hackathon Project: Safeline (Best Entrepreneurial Hack award) — Feb. 2019
- Used Python, OpenCV, and a Raspberry Pi camera to detect people falling down and send iPhone alerts

SKILLS

Languages: C/C++, Python, Java, JavaScript, Haskell, SQL, Latex, HTML/CSS/Sass
Libraries and Frameworks: PyTorch, TensorFlow, Matplotlib, pytest, Google Test, React.js, Jekyll
Tools: Vim, tmux, Git, Linux commands, Google Suite, Inkscape
Natural Languages: English (fluent), Mandarin (proficient)

ADDITIONAL INFORMATION

Champion of 2017 VEX Robotics High School World Championship • Speedcuber (solve Rubik's cube in <1 min)
Member of 2020 UCI Homecoming Court • Occasional Graphic Designer (btjanaka.net/personal)