BRYON TJANAKA

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EDUCATION

University of Southern California · Los Angeles, CA   Aug. 2020 - Present
Ph.D. Computer Science · **National Science Foundation Graduate Research Fellowship** · 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 4% by rearranging the query flow

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

USC Viterbi Graduate Student Association · Los Angeles, CA   Aug. 2020 - Present
Webmaster
- Maintain vgsa.usc.edu and promote outreach events such as SoCal GPS

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

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, JavaScript, Java, SQL, Latex, HTML/CSS/Sass
Libraries/Frameworks: PyTorch, TensorFlow, Matplotlib, Dask, Singularity containers, pytest, Google Test, React.js, Jekyll
Tools: Vim, tmux, Git, Unix/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)