Jared Coleman jaredraycoleman@gmail.com
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Summary & Skills

I have a broad interest in computer science. My research interests include blockchain, mobile robotics, discrete mathematics, computational geometry, game theory, graph theory, and distributed computing.

Languages: Python, C/C++, Java, JavaScript

Technologies/Frameworks: Docker, Tendermint, Git, React

Graduate Courses: Advanced Algorithm Design, Distributed Systems, Formal Verification, Randomized Algorithms, Theory of Computation, Programming Languages, Operating Systems

Education

University of Southern California Los Angeles, CA
Ph.D. in Computer Science; GPA: 4.0 *Aug 2020 – Present*

California State University, Long Beach Long Beach, CA
Master of Science in Computer Science; GPA: 4.0 *Aug 2018 – May 2020*
Bachelor of Science in Computer Science; GPA: 3.6 *Aug 2013 – May 2018*

Experience

The Aerospace Corporation El Segundo, CA
Casual Member of the Technical Staff *Aug 2020 – Present*
Member of the Technical Staff *Mar 2020 – Aug 2020*
Associate Member of the Technical Staff *Sep 2018 – Mar 2020*
Intern *Jan 2018 – Aug 2018*

- Help build simulations for verifying flight software.
- Design software that helps Aerospace rapidly develop scalable, modular, and efficient analyses for launch vehicle verification in simulation, day-of-launch, and post-flight environments.

CSULB Research Foundation Long Beach, CA
Student Research Assistant *Mar 2017 – May 2018*

- Developed software and simulations for systems of cooperative robots.

Publications

Robotic Sorting on the Grid
Jared Coleman, Oscar Morales-Ponce
To Appear at ICDCN 2022 - 23rd International Conference on Distributed Computing and Networking

Message Delivery in the Plane by Robots with Different Speeds
Jared Coleman, Evangelos Kranakis, Oscar Morales-Ponce, Danny Krizanc
To Appear at SSS 2021 - 23rd International Symposium on Stabilization, Safety, and Security of Distributed Systems

The Pony Express Communication Problem
Jared Coleman, Evangelos Kranakis, Oscar Morales-Ponce, Danny Krizanc
In Proceedings IWOCA 2021 - 32nd International Workshop on Combinatorial Algorithms

Minimizing The Maximum Distance Traveled To Form Patterns With Systems of Mobile Robots
Jared Coleman, Evangelos Kranakis, Oscar Morales-Ponce, Jorge Urrutia, Birgit Vogtenhuber
In proceedings CCCG 2020, 32nd Canadian Conference on Computational Geometry, August 5-7, 2020

Projects

Secure IIoT 2021 – Present
Using blockchain technology to secure industrial IoT systems *Autonomous Networks Research Group & Chevron*

Aerocube @ The Beach 2017
Distrubuted robotics systems for space - a proof of concept *CSULB & The Aerospace Corporation*