Brandon Odom

Software Engineer

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☁ brandonodom.com

Professional Experience

Software Engineer
Nov 2024 - Present

Unnamed Industrial Metal Company

- Leading redesign of a large industrial metal company's website
- Leveraging contemporary web dev stack and tools
- Building out back end infrastructure to create a long lasting and maintainable product

Software Development Engineer
Sept 2019 - Jul 2022

Amazon Web Services

- Contributed to the release of two new products
- Upgraded and maintenanced crucial live service infrastructure
- Routinely worked on-call to address critical and after-hours issues
- Created and maintained internal documentation and run books

Graduate Research Assistant
Jan 2016 - Dec 2017

Student Worker
May 2014 - Dec 2015

Center for Advanced Vehicular Systems

- Worked with Autonomous Navigation Virtual Environment Laboratory (ANVEL), a high-fidelity real-time simulation environment
- Created a network bridge to allow for communication between ANVEL and the Robotic Operating System (ROS)
- Developed multiple UIs for human factors studies
- Assisted in robot modification in maintenance both hardware and software

IT Intern
St. Stanislaus College

- Created accounts and conducted PowerGrade set up for incoming teachers
- Assisted summer personnel by troubleshooting various computer issues
- Performed routine maintenance and upgrades on all computers on campus

Education

MS in Computer Science   2013 - 2015
Mississippi State University

- Specialization: Artificial Intelligence
- Master's Project: "Therabot UI: Creating a human-friendly interface for Therabot interaction"
- Worked under Prof. Cindy Bethel on numerous social robotic projects and papers
- Worked with Prof. Chris Archibald on computational pool simulator CueCard

BS in Computer Science   2010 - 2013
Mississippi State University

- Minor: Cognitive Science
- Member of the Social, Therapeutic, and Robotic Systems Lab (STaRS Lab)

Publications

"Therabot™: A Robotic Support Companion"   2018
Darrow, Sarah, Aaron Kimbrell, Nikhil Lokhande, Nicholas Dinep-Schneider, T. J. Ciufo, Brandon Odom, Zachary Henkel, and Cindy L. Bethel. "Therabot™: A Robotic Support Companion." In Companion of the 2018 ACM/IEEE International Conference on Human-Robot Interaction, pp. 37-37. ACM, 2018.

"ANVEL-ROS: The integration of the robot operating system with a high-fidelity simulator."   2015
Hudson, Christopher, Daniel W. Carruth, Cindy L. Bethel, Alexander Lalejini, and Brandon Odom. "ANVEL-ROS: The integration of the robot operating system with a high-fidelity simulator." In Proceedings of Ground Vehicle Systems Engineering and Technology Symposium, p. 378. 2015.

Skills

Development

Python   TypeScript   Java   AWS

HTML5   React   Next.js   Tailwind   ROS

CLIPS

Design

UI Design   UX Design   Prototyping

User Research   Human Factors

Tools

VS Code   Terminal   LLMs   Git

Microsoft Office   Notion   IntelliJ IDEA

Unreal Engine   Maya

Professional

Agile/Scrum   Design Leadership

Time Management

Certifications

Institutional Review Board (IRB) Certification	2015
International Traffic in Arms Regulations (ITAR) Certification	2014

Miscellaneous

Alumni of the Social, Therapeutic, and Robotic Systems Lab (STaRS Lab)