

# Reece Dantin

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Solutions Architect and Robotics Engineer with 5+ years building production AI/ML systems and 2+ years deploying embodied AI on humanoid platforms. Led development of Unitree G1 humanoid robot with 43-DOF manipulation using VLA models, imitation learning, and teleoperation systems. Proven track record shipping safety-critical robotics software with sensor fusion (LiDAR, RGB-D, tactile), low-latency cloud inference, and distributed deep learning pipelines. Deployed autonomous systems to 10+ live production environments globally with 10K+ human interactions. Expert in modern Python, C++, and production ML deployment with PyTorch on real-world robotic systems.

## WORK EXPERIENCE

### Amazon Web Services (AWS)

*Solutions Architect - Embodied AI & Robotics Lead  
Associate Solutions Architect*

Washington, DC

Dec 2023 - Present  
May 2020 - Dec 2023

#### Robotics & Embodied AI Platform (2023-Present):

- Led end-to-end development and deployment of production humanoid robotics platform on Unitree G1 (43-DOF) with 3-finger dexterous hands, deployed to 10+ global conferences with 10K+ real-world human interactions
- Deployed and fine-tuned Nvidia Gr00t VLA models for multi-task manipulation; developed imitation learning pipeline training PyTorch neural networks from teleoperation data using distributed deep learning on AWS (SageMaker, EC2 GPU clusters)
- Built VR/AR whole-body teleoperation system using Unity and WebXR achieving 120Hz control frequency; architected low-latency cloud inference pipeline with <80ms latency for real-time VLM/VLA deployment across multiple regions
- Shipped safety-critical software with robust failure recovery, collision avoidance, and multi-sensor fusion (LiDAR, RealSense RGB-D, tactile sensors) using ROS2 for autonomous operation in unstructured environments
- Managed cross-functional team of 7 engineers scaling platform across multiple embodiments; generated \$44M in qualified sales pipeline through robotics demonstrations

#### Enterprise Solutions Architecture & AI Innovation (2020-Present):

- Gold Member, AWS Technical Field Community (Robotics & GenAI) - recognized as top-tier technical expert in robotics and generative AI domains across global AWS field organization (2026)
- Achieved 103% quota attainment on \$40M goal (2025); named SA of the Year for SMB Atlantic Region, Q3 2025 SA of the Quarter NAMER, and AWSome All-Star award recipient Q2 2025
- Developed AWS Sales MCP Server - built first agentic AI system for AWS Sales integrating Salesforce and Outlook, deployed to 6,400 daily active users, saving estimated 600K hours/year (300 FTE equivalent)
- Selected for competitive Tech U early career accelerator program (2020); promoted to Solutions Architect I (Dec 2023)

### Radius Technologies, Inc.

*Chief Technology Officer*

Atlanta, GA

Aug 2018 - Aug 2020

- Developed production computer vision system for sub-millimeter finger measurement using iPhone depth sensors and custom segmentation models with Metal compute acceleration; shipped mobile app that reached #3 top apps in the US with 100K+ users; architected full-stack infrastructure and managed team of 3 engineers

### Verizon

*Supply Chain Augmented Reality Intern*

Basking Ridge, NJ & Alpharetta, GA

Jun 2019 - Aug 2019

- Developed production AR application for head-mounted displays with integrated SLAM algorithm for real-time localization and mapping; presented to CIO and C-suite executives

### Mobile Innovations Team Intern

Jun 2018 - Aug 2018

- Built cross-platform React Native app with personalized UI and voice integration (Alexa, Chatbot); presented to CIO

### Salesforce Department Intern

Jun 2017 - Aug 2017

- Designed AWS proof-of-concept architecture for Salesforce integration; won Southeast Region Intern Hackathon competing against 100+ interns

### Georgia Institute of Technology

Atlanta, GA

May 2020

Bachelor of Science in Computer Science

### Santa Fe College

Gainesville, FL

Aug 2017

Associate in Arts in Computer Science

**Programming Languages:** Python (NumPy, PyTorch, TensorFlow), C++, C#, JavaScript, Java, Swift

**Robotics & ML:** Deep Learning, Imitation Learning, Reinforcement Learning, Vision-Language Models (VLMs), Vision-Language-Action Models (VLAs), Computer Vision, SLAM, Sensor Fusion, Teleoperation

**Frameworks & Tools:** PyTorch, TensorFlow, ROS2, Nvidia Gr00t, OpenCV, Unity, WebXR, AWS SageMaker, EC2, S3, Lambda

**Sensors & Hardware:** Unitree G1 Humanoid, 3-Finger Dexterous Hands, LiDAR, RealSense RGB-D, Tactile Pressure Sensors, 7-DOF Arms, 43-DOF Humanoids

**Certifications:** AWS Solutions Architect - Professional • AWS TFC Gold Member - Robotics & Generative AI (2026)

**Other:** Georgia Tech Hackathon Winner - College of Computing Spring 2018 • Published iOS/Android Developer - 3+ apps deployed • Eagle Scout - Boy Scouts of America

## EDUCATION & SKILLS