

James O'Connell

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Experience

Software Engineer Manager, Raytheon (TS/SCI)

Dec. 2023 – Present

Java, Python, Docker, Kubernetes, Gradle

Denver, CO

- Responsible for the development of modernization features, optimizing system functionality and delivering capability.
- Led the pathfinding of low-to-high development processes to enable the program to enhance delivery of customer needs.
- Assumed role of section manager, handling software staff/HR matters, 1:1 development, and promoting career growth.
- Applied Scrum Master experience to enhance processes, resolve blockers and facilitate communication across teams.
- Spearheaded department intern program, coordinating work assignments and fostering individual development.

Full-Stack Software Engineer, USAA

May 2021 – Dec. 2023

Java, SpringBoot, Kafka, React.js Node.js, Docker, AWS, OCP, Hibernate/JPA, DB2

Phoenix, AZ

- Developed and maintained event-driven P&C Insurance Communications System Java APIs and Kafka streams.
- Reduced toil of O&M availability teams by building resources to reconcile reinstated communication packets.
- Identified & triaged on-call production issues/defects during and after code deployments.
- Developed features for interns and guided the them on Java API development, Agile methodologies and SDLC.

Teacher, Microsoft TEALS

Oct. 2020 – May 2021

Mentorship, Education, Python, CS Foundations

Tucson, AZ

- Educated high school students in computational thinking, problem solving, coding, and computer science concepts.
- Provided a hands-on learning in which students' learn through discovery, experimentation, and application.

Software Engineer, Lunar & Planetary Laboratory

May 2019 – Jan. 2020

Python, C, Remote Sensing, Simulation, Analysis, Research

Tucson, AZ

- Developed/maintained simulation software utilizing air/spaceborn sounding radargrams to assist planetary investigation.
- Collaborated in the analysis of remote sensing data to better understand debris covered glaciers on Mars and Earth.
- Provided requirements analysis to shape the roadmap to the needs of research specialists.

Infantry Fireteam Leader, U.S. Army, 82nd Airborne Division

Jan. 2015 – May 2018

Leadership, Employee Development, Resource Management, Risk Analysis, Planning

Fort Bragg, NC

- Executed the planning/assessment of training exercises in high pressure, fast moving, dynamic and ambiguous scenarios.
- Provided 1:1 performance and growth development counseling to enhance ones current and future responsibilities.
- Led 2-4 man fireteams in airborne/combat operations across austere environments(Afghanistan, Jun. 2017 – Mar. 2018).

Projects

Production Support Tool, Java, SpringBoot, React.js, SQL, Docker, AWS/OCP

Jun. 2023

- Designed and built Java APIs with a React web app interface that provides accessibility, and streamlines manual tasks.
- Implemented an event listener to provide oversight and accountability on users executing data modifications.
- Leverages Hazelcast for distributed in-memory caching to improve latency, flexibility, and manageability.
- Built out a ServiceNow service to facilitate governance when modifying production data with a resource.

Surface Clutter Simulator, Python, C, numpy, gdal, ctypes

Jan. 2020

- Generates two-dimensional left/right-side(of the spacecraft) cluttergram images, each containing surface reflections.
- Leverages digital surface models, geographic, geometric and ionospheric properties sourced from NASA's PDS as inputs.
- Increases confidence that interpreted subsurface features in radargrams are not a product of surface topography.

Skills

Languages: Java, Python, Javascript, C/C++, HTML, CSS, SQL

Frameworks: SpringBoot, React.js, Kafka, JUnit, Jest, Pitest, JPA/Hibernate, IBM DB2/Optim

Tools: Docker, Kubernetes, AWS, Git/GitLab, Gradle, Helm, Postman, Openshift, Elasticsearch, Grafana

Education

Master of Science in Computer Science, Georgia Institute of Technology

May. 2026

Bachelor of Science in Computer Science, University of Arizona

Dec. 2021

SAFe Scrum Master Certification, Scaled Agile

Jul. 2024

SAFe Product Owner/Product Manager Certification, Scaled Agile

Sep. 2024

Publications

Christoffersen, M. S.; Holt, J. W.; Kempf, S. D.; O'Connell, J. D. *MRO SHARAD Clutter Simulations Data Products*. 2021. PDS Geosciences (GEO) Node. <https://doi.org/10.17189/nbdh-2k53>