

# James O'Connell

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## Experience

### Software Engineer(TS/SCI), Raytheon

Dec. 2023 – Present

*Java, SpringBoot, Docker, Kubernetes, AWS, REST, Gradle*

*Denver, CO*

- Assumed role of section manager, handling software staff/HR matters, 1:1 development, and promoting career growth.
- Collaborated with peers on learning/development plans and experiment through building APIs while awaiting access.
- Took on cross-functional training on 'Writing Successful Requirements' to better craft feature specifications.
- Completed SAFe Scrum Master training/certification and applied it to enhance engineering processes.
- Actively working comprehensive Java development curriculum, complemention mission management and C2 software.

### 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.
- Mentored, guided and developed features for interns on Java API development, Agile methodologies and SDLC.
- Migrated a series of Java APIs from SpringBoot 2.7.x to 3.x.x/Java 11 to 17, and JBoss to SpringBoot.

### 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.
- 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, HTML, CSS, SQL, C

**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

**Bachelor of Science in Computer Science, University of Arizona**

Dec. 2021

**SAFe Scrum Master Certification, Scaled Agile**

Jul. 2024

**Project Management Certification, Google**

Jun. 2023

## 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>