

Bryce Carande

📍 Longmont, CO

🔗 linkedin.com/in/bcarande

📞 (+1) 303-817-3691

✉️ bcarande@gmail.com

Professional Summary

My interest is to develop new technology for space systems, and to advance our understanding of the Earth. I am a technical leader with 10+ years experience on software development teams, and a broad background in physical sciences, data engineering, and satellite remote sensing.

I value working on high-performing teams, and I provide leadership to move projects forward. I have deep experience with the Agile development process, and am comfortable leading code reviews, scrum meetings, quarterly planning, technical demos, and team retros.

My technical involvement has spanned the software dev-ops lifecycle process, from prototyping algorithms, to microservice design and deployment, to proactive system monitoring and operational incident analysis. I have experience with product ownership of internal-use software tools and GUIs, including soliciting customer feedback, feature planning and prioritization, and fostering cross-team collaboration.

Experience

Principal Systems Software Engineer	BAE Systems	Aug 2025 - Present
<ul style="list-style-type: none">Determined system requirements and developed a test infrastructure for evaluating algorithm performanceTechnical lead on newly formed infrastructure teamIdentified knowledge gaps and provided team training, mentorship, and improved documentation resources		
Staff R&D Scientist	Maxar Technologies	Jan 2019 - May 2025
<ul style="list-style-type: none">Analyzed performance of the Constellation Scheduling System for Worldview operationsAssessed impacts of operational changes to satellites (GNC degradation, orbit changes, etc)Implemented a python-based analytics toolset to load, process, and visualize data across several domains.Orchestrated system tests using synthetic data to measure the effect of software and parameter changes.Lead developer and product owner for an internal-use GUI to show potential imaging opportunities for a location.		
Software Engineer	DigitalGlobe / Maxar Technologies	Jun 2016 - Jan 2019
<ul style="list-style-type: none">Engineer for an Agile-Scrum software team in the mission planning (tasking) domainResponsible for design, dev, deployment, and support of microservices in Java and Python, as well as GUIsLearned and utilized our common CI/CD infrastructure stack (GitHub, Artifactory, Jenkins, Kubernetes, AWS)		
Software Engineer	GroupHigh	Nov 2014 - May 2016
<ul style="list-style-type: none">Full-stack development of a web application for a blog intelligence platformContributed to user-facing front end (Angular) as well as distributed big-data processing back end (Java, Hadoop, Solr)Implemented a system health monitor for on-prem server cluster proactively tracking hardware health, system compute resources, automated processes, and job throughput.		
Geophysical Software Developer	MagVAR	Apr 2014 - Oct 2014
<ul style="list-style-type: none">Wrote software to automate data processing and analysis of wellbore measurements, airborne magnetic surveys, and global magnetic observatory data.		

Education

M.S. in Astrophysics	Arizona State University	Aug 2010 - Dec 2013
<ul style="list-style-type: none">Thesis research: Spectral analysis to determine stellar composition of binary exoplanet systemsPublication: Mission to the Trojan asteroids: Lessons learned during a JPL Planetary Science Summer School mission design exercise Planetary and Space Science · Feb 1, 2013		
B.S. in Engineering Physics	Colorado School of Mines	Aug 2006 - May 2010
<ul style="list-style-type: none">Senior Project: Portable calibration laser for atmospheric cosmic ray telescope		

Skills

Programming Languages: 🐍 Python, 💡 Java, 🗣️ SQL

Tools and Frameworks: ElasticStack, GitLab, Kubernetes, AWS, NumPy, Pandas, Jupyter Notebooks

Software Patterns: Microservices, API documentation, distributed systems, REST, Linux, Bash, Async processing, Log aggregation and data mining, Metrics postprocessing and visualization, Data provenance and traceability