JAMES MICHAEL BALLOW

Passionate software engineer and problem-solver. Skilled in engineering and implementing automation to solve short- or long-term problems. Professional philosophy: great work comes from a balance of risk, cost, prayer, and perseverance. Personal philosophy: "Challenge Accepted!"

CONTACT (*LINKS)

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- ⌂ Professional Profile*
- ⌂ Udemy Instructor Page*
- ○ JamesMichaelBallowProjects*
- in james-michael-ballow*
- iD 0000-0003-0548-9901*

SKILLS

Programming

Skill	Level
Python	●●●●●
MATLAB	●●●●●
APIs	●●●●●
shell/bash/csh	●●●●○
HTML/CSS/JavaScript	●●●●○
LaTeX	●●●○○
Flux/influxql	●●●○○
C/C++	●●●○○
Java/Scala	●●○○○

Operating Systems

Skill	Level
Windows	●●●●●
LINUX	●●●●●
MacOS	●●○○○

Software & Methods

Skill	Level
Agile - JIRA	●●●●●
Database - AirTable	●●●●●
Database - AWS(S3)	●●●●●
Data - handling/analysis	●●●●●
Visuals - plotly	●●●●●
Visuals - matplotlib	●●●●●
Visuals - grafana	●●●●●
ML - regression	●●●●○
ML - classification	●●●●○
ML - time series	●●●●○
Apps - streamlit	●●●●○
Apps - iOS (xCode)	●●●○○
VM - Docker	●●●○○

Languages

Language	Level
English	●●●●●
Spanish	●●●●○

CERTIFICATES

Associate Python Programmer
Government-Certified Nuclear Engineer

⚙ WORK HISTORY

📅 Mar 2022 - Mar 2023
⌖ Axiom Cloud Inc.,
San Francisco, CA

Software/Product Engineer

Engineered company's first solution towards monitoring time series data on a massive scale using python, AirTable, and AWS, increasing company throughput 100-fold. Engineered a solution to mass produce thousands of data traces in Amazon Managed Grafana Dashboards using python and a unique templating schema. Visualized streams of data to indicate where data was lost so as to effectively pinpoint and communicate data losses to the team to re-establish services.

📅 May 2018 to Dec 2021
⌖ Fluor Marine Propulsion (DOE),
Schenectady, NY

Senior Software Developer

Designed, developed, documented and deployed a multi-site, multi-platform, multi-language job automation/husbandry software for nuclear analysis. Coordinated with engineering PhDs and scientists to solve nuclear-related mathematical problems. Instructed a team of 8 engineers how to use LINUX, MATLAB, python, csh/bash.

† Several letters of recommendation available upon request.

🎓 EDUCATION

📅 May 2022
⌖ Clarkson University, Potsdam
4.0 GPA

M.S. in Computer Science

📅 May 2015
⌖ Florida State University, Tallahassee
3.8 GPA

B.S. in Chemical Engineering

ACHIEVEMENTS AND AWARDS

- 🏆 Udemy Course (2023): The Foundation You Didn't Know You Needed.
- 🏆 Public. (2022): *Real-Time Hand Gesture Identification in Thermal Images*.
- 🏆 Award (2019) - Finished cross-site MATLAB corporate license merger.
- 🏆 Award (2018) - Modified U.S. Federal Government process of manual.

GENERAL SKILLS

| Software Design | Scientific Programming | Automation | ML/AI |

| Engineer-Developer Cross Communications | Data Visualization |

MY WORK-LIFE BALANCE