

(818) 629-5449
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(she/her)
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Bailey Maxwell Man

Researcher | Data Scientist

Portfolio
GitHub
LinkedIn

Data scientist with over 3 years experience building data-oriented pipelines and applications. Proficient in Python, R, and SQL for data analysis and machine learning. Passionate about applying data science expertise to interesting problems and new research domains, especially in the rapid development of AI.

SKILLS

Programming Languages	Python (TensorFlow, NumPy, Pandas), R, SQL, MATLAB, ArcGIS
Data Analysis	Computational Modeling, AWS, Machine Learning, Kubernetes, Docker, Tableau
Research	Git, Experimental Design, Database Management, Scientific Communication

EDUCATION

Bachelor of Data Science , <i>University of California, San Diego (UCSD)</i>	Graduated 2022
<i>Cognitive Science Minor</i>	
<i>Halicioğlu Data Science Institute Scholarship</i>	
<i>Triton Research & Experiential Learning Scholarship</i>	
<i>2nd Place (Big West Data Innovation Hub COVID-19 Data Challenge)</i>	

PROFESSIONAL EXPERIENCE

Machine Operator <i>Jabil Healthcare (Temporary through Eastridge Workforce Solutions)</i>	DEC 2024 — Present <i>Clinton, MA</i>
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- Monitored and optimized manufacturing equipment performance
- Maintained detailed logs and tracked key performance metrics
- Collected and documented operational data for process improvement

Family Leave Career Break	APR 2023 — DEC 2024
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- Took a career break to support personal responsibilities and family needs

Data Scientist <i>Fulcra Dynamics</i>	OCT 2022 — APR 2023 <i>Encinitas, CA</i>
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- Developed personalized machine learning models connecting calendars, health data, and finances
- Provided and supported computational notebooks and a dedicated API, as well as presented to clients personally
- Implemented SQL and AWS databases to manage large amounts of real-time information

Researcher Applications Developer <i>San Diego Supercomputer Center</i>	SEP 2020 — JAN 2023 <i>La Jolla, CA</i>
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- Developed high-fidelity COVID-19 computational simulation models to inform K-12 pandemic responses
- Presented recommendations with open-source web app to 400 school officials and nurses
- Integrated real-time data into GIS remediation dashboard for groundwater contamination analysis

Data Analyst <i>inVia Robotics</i>	JUN 2018 — DEC 2019 <i>Westlake, CA</i>
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- Managed 2 million line SQL database of warehouse robot information
- Tuned evaluation metrics for robot control software that led to a 150% increase in picks per hour
- Created and delivered presentations to stakeholders, communicating experiment results to a non-technical audience

PROFESSIONAL DEVELOPMENT

NASA L'SPACE Program	JUN 2021 — NOV 2021
• MCA Team 23 Project Lead	AUG 2021
• Primary authored NASA-compliant Preliminary Design Review for satellites measuring water on dark side of the moon	
• NPWEE Team 41 Project lead	NOV 2021
• Organized development and budgeting for automated satellite machine learning flight software pipeline	

Eagle Scout (Troop 127)	2017
• Eagle project managed 100 scouts creating snake boxes from scratch for local animal control	
• Patrol Leader of Troop 127 Venture Crew	