

Devin Hunt – June 2026 Resume

AI Automation Engineer and Groundwater Modeler

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Engineer who builds tested Python automation, AI-grounded applications, and agent workflows, with California SGMA groundwater modeling in IWFM as the proving ground. Turns slow, manual modeling and GIS work into reusable, tested tools, and develops AI-assisted toolkits grounded in modeling theory and documentation. Leads firm-wide adoption of AI-enriched workflows. Advises staff across practice areas on using AI for development and guides their early ideas towards production-ready solutions.

Professional Experience

Water Resources Engineer I to II, Woodard & Curran, June 2023 - Present

- Develop and maintain AIIWFM, an internal AI application that grounds language models in the IWFM user manual and modeling theory to answer groundwater modeling questions accurately.
- Build a Python suite of tools that automates the common IWFM model workflows, including sub-setting a model domain, and running automated file linting, QA/QC, and water-budget reporting.
- Automate post-processing of IWFM groundwater models, replacing slow manual steps with tested, reusable tools.
- Develop PyPEST, a Python port of the DWR IWFM PEST calibration suite, validated against the original Fortran tools to support automated model calibration.
- Lead the firm's monthly AI Innovators forum, a company-wide group that helps staff at any skill level learn AI and build their own tools, drawing over 100 staff and supporting several new tools.
- Advise staff across practice areas on AI-assisted engineering, sharing advanced Claude Code and Copilot workflows in agents, subagents, skills, and context management.
- Run an internal workflow that audits, refactors, and documents early-stage AI tools and returns a handoff report so staff can continue with their own development, applied across five projects to date.
- Perform annual updates for the CoSANA Model and the Cuyama Basin Water Resources Model.
- Compute Recharge Suitability Index scores from open-source geospatial data for the Yuba Subbasins.

Geospatial Analyst and Programmer, Geospatial Centroid at Colorado State University, October 2022 - May 2023

- Developed R-Spatial scripts supporting the NASA Equity and Environmental Justice grant project, Environmental Justice for Prisons.
- Applied R and geospatial libraries across spatial projects spanning Colorado and the continental United States.
- Provided project planning and technical tutoring, holding office hours to support students with spatial project needs.
- Designed hexagonal project-spotlight displays for the Centroid office.

Undergraduate Research Assistant, Colorado State University, January 2022 - October 2022

- Supported a PhD dissertation on stream metabolism as field researcher and data analyst across four catchment basins in the Fraser Experimental Forest, Colorado.
- Constructed Campbell Scientific stream gauges and installed Campbell, HOBO, and other in-situ sensors.
- Collected stream geomorphology, velocity-area, and groundwater-level measurements and processed water samples for dissolved organic and inorganic carbon.
- Maintained sensors, retrieved field data, and documented all field and laboratory work.

Education

Colorado State University

Bachelor of Science in Watershed Science, Hydrology and Water Resources Science

Minor in Geospatial Information Systems

Relevant coursework:

- Hydraulics and Groundwater Flow; Hydrogeology, Soil Physics, Physics I and II
- Data Science; Programming for GIS I and II, Watershed Analysis for Environmental Data Science, Watershed Problem Analysis
- Remote Sensing; Geodetic and Near-surface Geophysical Methods, Remote Sensing and Image Interpretation
- Niche Subjects; Snow Hydrology, Field Measurements in Snow Hydrology

Professional Skills

- AI enablement and technical mentoring
- Stakeholder and leadership communication
- Concurrent multi-project management
- Cross-functional technical collaboration

Technical Skills

- IWFM and C2VSimFG
- Groundwater Interpolation
- Python
- AI Agent Orchestration with Claude Code
- Test-Driven Development
- Git
- GeoPandas, GDAL
- SQL
- RESTful APIs
- Node.js and Full-Stack Web
- ArcGIS Pro and Online
- QGIS
- Leaflet and MaplibreGL
- Cartography
- R
- Excel LET and LAMBDA
- Field Documentation

Additional Achievements

Eagle Scout Award, Boy Scouts of America, August 2018

Wilderness First Aid, NOLS Wilderness Medicine, May 2016