

Katherine (Katy) Yut

Geospatial Data Engineer

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To whom it may concern,

I'm a geospatial data engineer and a voracious learner. I earned two undergraduate degrees and a graduate degree in five years, then went from Python novice to Data Engineer in less than a year and a half. Along with writing well over ten thousand lines of code by hand, I lean on tools like Claude, Gemini, and Copilot to move faster, and placed in the top 5 of 27 in a company-wide AI competition. I'm a curious, motivated tinkerer and builder, and I bring that to every team I join.

My current role as a Data Engineer at Grassroots Carbon has been defined by growth and self-driven skill acquisition, from soil carbon to coding. I've picked up Docker containerization, automated deployments with cron and GitHub Actions, integrated APIs such as Salesforce, built ETL pipelines from start to finish, designed front-end applications in Streamlit, and adopted Pydantic for data validation. I tackle problems as I find them, often before they become business-critical. Day to day, I develop Python modeling pipelines for soil carbon reductions and removals, write and rewrite code until it is clean and documented, review pull requests for my colleagues, and read the literature to deepen my industry knowledge.

I've worked with a wide variety of data, from economics to ranching, usually in the form of large geospatial datasets. In my current role, I've processed a dozen datasets onto Uber's H3 hexagonal spatial index and stored the resulting Parquet files on AWS S3. I'm intellectually nimble: I pivot and get up to speed quickly, whatever the size of the challenge. My professional goal is to keep learning by solving complex problems that bring ideas to life, improve efficiency, and build a better world.

My mantra, in life and at work, is "I can do hard things." I live it daily by meditating, cold plunging, weightlifting, and keeping other habits and routines, which I track in a personal app I built for the purpose. I'm a go-getter and a never-back-down kind of person, confident in my ability to learn new skills and sharpen the ones I have. I do my best work surrounded by smart, hardworking people who treat others with respect and share the same goals.

Thank you for considering my application; I look forward to discussing the role further.

Best,

Katherine (Katy) Yut