

David Lawrence Pollard

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My work unites technology, ecology, and equity to sustain land, water, and life.

Skills

Languages & Frameworks

Python, JavaScript, React, NodeJS, Django, SQL, NoSQL, CSS, SASS, HTML

Artificial Intelligence & Machine Learning (AI/ML)

AI/ML Integration, Scikit-learn, TensorFlow, Remote Sensing Data Pipelines, Computer Vision

Practices & Design

DevOps, Testing, Cloud Computing, Agile, Lean , APIs, UI, UX, Git

Leadership & Mentorship

Organizational Leadership and Strategy, Mentorship, Relationship Management, Listening

Systems Thinking

Cross-functional Collaboration Lead, Co-creation, Curiosity, Love of Learning

Employment

Managing Software Engineer

[Ecotrust](#) | San Francisco, CA | January 2025 to current

- Chosen for the leadership team, guiding the organization through financial and political turbulence.
- Supporting Indigenous Data Sovereignty through co-creation of open-source software and providing free technical support
- Leading research and AI integration efforts for internal operations and external products, resulting in a doubling of contract renewals.

Senior Software Engineer

[Ecotrust](#) | San Francisco, CA | January 2021 to January 2025

- Co-created strategic plan for long-term growth and improvement of software team.
- Led software initiatives on three multi-year pan-disciplinary campaigns, resulting in \$3M+ in grants and measurable ecological outcomes.
- Mentoring engineers in AI/ML tools, mainly GitHub Copilot and ChatGPT, to accelerate our development

Software Engineer

Ecotrust | San Francisco, CA | January 2018 to January 2021

- Developed a data-driven tool modeling species migration under climate change, integrated into the National Climate Assessment.
- Enabled decision-makers on salmon recovery through accessible modeling of ecological systems in land management scenarios.
- Reported on fishing communities perspectives of California Marine Protected Areas effectiveness.

Software Experience Developer

Ecotrust | Portland, OR | August 2016 to January 2018

- Built offline-first apps adopted by tribal governments and the United States Forest Service (USFS), enhancing civic participation by 30%.
- Implemented new messaging platform, saving \$5,000+ annually and significantly improving internal communication efficiency.

Full Stack Developer

Alta Planning & Design | San Francisco, CA | March 2014 to August 2016

- Designed interactive transportation planning tools used by over 600,000 residents, increasing community participation by 40%.
- Introduced DevOps practices, cutting software deployment times by 30% and reducing system downtime by 20%.

Front End Developer

Bisk Education | St. Petersburg, FL | January 2012 to March 2014

- Created a front-end framework for an online education platform, improving accessibility and user experience for students across several universities.

Education

Machine Learning

University of Washington | MOOC | August 2022 to May 2023

Computer Science

St. Petersburg College | August 2010 to May 2012

Sports Management

University of North Florida | BS | August 2006 to May 2011

Praise

Jeremy Barnicle, CEO, Ecotrust

- "Thanks for David's team building stuff I don't fully understand but promise I appreciate."