

Jonathan Bischoff

CREATIVE THINKER · PROBLEM-SOLVER · SOFTWARE ENGINEER

Seattle, WA

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Education

Vanderbilt University

BACHELORS OF SCIENCE, COMPUTER SCIENCE

Nashville, TN

May 2021

- **Focus:** Applying software design patterns to build robust, scalable systems.
- **Skills:** Object-Oriented Design (C++, Python), Algorithm Optimization, Statistics, Data Analysis, Database Management Systems.
- **Leadership:** Director of Vanderbilt's improv comedy troupe, leading rehearsals and developing team communication skills.

Experience

Independent Research & Analysis

ENVIRONMENTAL TOXICOLOGY MAPPING

Remote

May 2025 - current

- Analyze toxin contamination patterns in Pacific Northwest watersheds affecting salmon populations.
- Develop **Python data processing** pipelines to integrate open-source traffic data with watershed datasets.
- Communicate with the EPA to create relevant, **interactive GIS visualizations** using GeoPandas.
- Collaborate with ProgramEarth open-source community on **biodiversity mapping initiatives**.

Paramount Global

CAMPAIGN MANAGER, **DIGITAL AD SALES**

Remote

September 2022 - current

- Process and analyze millions of campaign data points to extract actionable insights.
- Serve as **liaison between server data and Sales**, pulling reporting, translating technical concepts for non-technical partners.
- Independently **design and build automation tools** for faster, more accurate setups.
- Managed campaigns worth over **\$32 million** with clients like Disney, Apple, Unilever, and more.

CEIPSO Maestro Rodrigo

ENGLISH LANGUAGE INSTRUCTOR

Aranjuez, Spain

September 2021 - 2022

- Designed and delivered science lessons for 5th and 6th graders acquiring English fluency.
- Served as a **cultural and linguistic bridge** between English speakers and local communities.

TerraClear, Inc.

SOFTWARE ENGINEER - SUMMER INTERN

Bellevue, WA

May 2019 - Aug 2019

- Spearheaded **full-stack development** of a robotic telemetry service using React Native, AWS, Linux, and SQL.
- Independently designed the project in a **fast-paced startup environment**, emphasizing **modularity for future adaptation**.
- Partnered with robotics engineers to deliver a solution that **reduced fault diagnosis time by 65%**

Community & Leadership

Beacon Food Forest

VOLUNTEER WATER STEWARD

Seattle, WA

June 2023 - Present

- Support Seattle's largest permaculture garden through plant care and community stewardship.
- Share knowledge with other Earth & Biology enthusiasts, making connections across domains.
- Apply systems-level thinking to understand ecosystem interactions.

Boy Scouts of America

EAGLE SCOUT

Port Washington, WI

Jan 2017

- Demonstrated leadership, organization, and perseverance by achieving Scouting's highest rank.

Skills

- **Programming & Scripting:** Python, C++ (object-oriented design), bash/Linux command line, React Native, SQL, AI-Assisted Development
- **Data Analysis & Visualization:** Custom data pipeline development, GIS systems. Currently deepening expertise with R.
- **Technical Systems:** Linux/Unix environments, AWS, database management, version control, ad tech platforms (FreeWheel, GAM).
- **Project Management:** Managing multiple concurrent projects, rapidly learning new tools and domains, independent problem-solving.
- **Collaborative:** Team-oriented and community-driven, dedicated to learning from experts and strengthening group outcomes.
- **Bilingual:** Fluent in English and Spanish.