

## Olivia Jardine

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### EDUCATION

#### University of Washington

Seattle, WA

B.S. in Discrete Math and Algorithms, Minor in Business

Expected Graduation: June 2027

- Courses: Data Structures & Algorithms (Python & Java), Algorithmic Engineering (C++), Discrete Math, Statistics
- Organizations: I2 Neuroscience AI (member)

### EXPERIENCE

#### Founder & Software Developer

Apr. 2025 – Present

Oraflamme – Collaboration with King County Information Technology (KCIT)

Seattle, WA

- Designing and developing a secure extranet web application for the King County Hazardous Waste Management Program, supporting 90k+ residents and 1k+ businesses annually
- Developing the system architecture using C#, ASP.NET Core MVC, Web API, and SQL Server, with Forms Authentication for role-based access and secure data management.
- Integrating secure data handling with symmetric key encryption to protect sensitive environmental and business information.
- Collaborating closely with a KCIT employee to ensure compliance with public-sector security standards, including data retention, access control, and legal protocols.

#### Business Owner

May 2024 – June 2025

9-Lives Thrift

Seattle, WA

- Managed a 5.0-star vintage e-commerce shop, sourcing 150+ unique items monthly and developing automated Tableau dashboards and tools that boosted social engagement by 60% and improved inventory accuracy.

#### Business Owner

Jul. 2020 – Sept. 2022

Nexora Creations

Seattle, WA

- Launched and managed a jewelry and crafts business, maintaining a 5.0-star rating and fulfilling 300+ orders; utilized Excel for inventory management, sales tracking, and financial forecasting, leveraging data insights to drive 30% YoY growth and increase monthly web traffic by 50%.

### PERSONAL PROJECTS

#### Smart Shoplifter Detection System | FastAPI, YOLOv8, OpenCV, PostgreSQL, Docker

[Link](#)

- Built a full-stack surveillance system that detects and tracks suspicious behavior using YOLOv8 and OpenCV, achieving 91% detection accuracy and sub-500ms alert latency in real-time video streams.
- Deployed an async FastAPI backend with WebSocket-based live alerts and a PostgreSQL event log, supporting 10+ concurrent video streams and storing over 10,000 detection events for audit and analysis.
- Developed a responsive design dashboard with detection overlays, historical alert review, and system health monitoring; increased alert acknowledgment efficiency by ~40% during user testing.

#### Node Flow | TypeScript, Tailwind CSS, React, Vercel

[Link](#)

- Built an interactive tool to visualize 22+ essential data structures and algorithms, helping 200+ users better understand foundational CS concepts.
- Built with React, TypeScript, and Vite, optimizing for fast load times (under 2 seconds) and smooth SVG/D3.js animations.

### TECHNICAL SKILLS

**Languages:** Python, Java, C#, C++, JavaScript, TypeScript, HTML/CSS

**Frameworks:** .NET, Node.js, React, Tailwind CSS

**Developer Tools:** Azure, SQL Server, PostgreSQL, SQL (basic), Docker, Git, Vite, Visual Studio, PyCharm

**Libraries:** Pandas, NumPy, Matplotlib, Scikit-learn