Matthew Purdue

Software Engineer
Open to Relocation

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B.S. Software Engineering · Oregon Institute of Technology · Minor: Applied Mathematics · President's List · 2022 – 2026

PROJECTS

Clear Scan — X-Ray ML Analysis · *Senior Year · Individual Capstone*

PyTorch ResNet-50 CNN Python PySide6

- Designed and trained a ResNet-50 CNN to detect anomalies in chest X-ray images — 93% accuracy
- Managed the full ML pipeline independently: model training, hyperparameter tuning, evaluation, and iteration
- Produced complete software engineering documentation including Use Case Models, Class Specification Models, and Sequence Diagrams, demonstrating the end-to-end SDLC

Flight Path — Campus Navigation · *Junior Year · Team of 5*

React Native Firebase Android Agile Jira

- GPS navigation system for the Oregon Tech campus with both outdoor wayfinding and indoor building navigation, delivered as a cross-platform Android mobile application
- Personally build the Dijkstra's algorithm for interior navigation and connected the Firebase database
- Designed and implemented a client-server architecture with React Native on the frontend and Firebase on the backend, integrating real-time map data and building floor plans
- Practiced full Agile methodology over a yearlong project: ran 3-week sprint cycles, rotated Scrum Master responsibilities, and managed features, user stories, and tasks in Jira

Tip Calculator for Android · *Summer 2024 · Solo*

Kotlin Android Studio Google Play

- Built and published to Google Play with internal/external testing pipeline and version control lifecycle
- Independently researched and learned Kotlin from documentation

Gear Locker · *Spring / Summer 2026 · Solo*

C# HTML ASP.NET MySQL

- Independently designed a virtual locker to track my personal outdoor gear
- Tracks damage, where I purchased the item, warranty information, and other key statistics all stored in a MySQL database

EXPERIENCE

Retail Associate (Seasonal) | Columbia Sportswear — Woodburn, OR *Oct 2026 – January 31st, 2027*

- Provide customer service, product recommendations, and POS checkout in an outdoor apparel retail store
- Maintain visual merchandising and store standards; receive, stock, and replenish merchandise

Outdoor Program Equipment Manager | Oregon Institute of Technology — Klamath Falls, OR *Oct 2024 – June 2026*

- Built software to automate program outreach and statistical reporting via Microsoft Power Automate
- Directed logistics for 50+ person overnight, outdoor trips, taught outdoor skills (skiing, spelunking, backpacking)
- Initiated vendor partnerships saving over $2,400 in equipment costs

Orchard Laborer | Private Farm — Klamath Falls, OR *Spring 2023 – June 2026*

- Operated heavy machinery (auger, stump remover); managed irrigation installation and ongoing mechanical diagnosis and maintenance

Driver & Pizza Maker | Garlic Jim's — Salem, OR *Summer 2023 – 2024*

- Updated and maintained point-of-sale; cashiering, new-hire training, customer service, closing duties