

# Patrick Punch

*Software Engineer, Secret Security Clearance*

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## Summary

Enthusiastic advocate for sustainable technology, driven by a passion for collaboration to create innovative solutions that benefit both people and the planet.

## Contact

## Skills

✉ [pat.pun18@gmail.com](mailto:pat.pun18@gmail.com) Programming Languages:  
🌐 [ppunch.dev](http://ppunch.dev) Python, Java, C, Ruby, SQL,  
☎ [\(360\) 929-0170](tel:(360)929-0170) C++, HTML, CSS, Javascript  
🌐 [patrick-punch](https://www.linkedin.com/in/patrick-punch) Teamwork: Communication,  
🌐 [patrick-punch](https://www.github.com/patrick-punch) Collaboration, Leadership

## Volunteering

### Hacker Refactor Club

Treasurer · Sept. 2024 to Current

- Managed the budget and finances for the computer science club, overseeing and tracking expenses to support member activities.

## Projects

Music AI · Sept. 2024 to Current

- A data representation for loading, storing and manipulating symbolic music notation, using machine learning and artificial intelligence algorithms.

Bayes Network · May 2024 to June 2024

- Built a Naive Bayesian Network using Neapolitan's probability propagation algorithm to model relationships and infer posterior probabilities, showcasing applications in decision-making and predictive analysis.

AI Agent for Othello · May 2024 to June 2024

- Developed an AI agent that plays Othello using the minimax algorithm to determine optimal moves.

Shortest Path with A\* · Mar. 2024 to Apr. 2024

- Implemented multiple search algorithms to determine the shortest path between cities using command-line input and map file parsing.

## Employment

### Oregon State University – Cascades

Computer Science Tutor · Sept. 2023 to Current

- Worked with students in person and remotely to help them grasp key computer science concepts, like data structures and algorithms.
- Focused on building a supportive atmosphere that encouraged students to engage with the material.

### Oregon Army National Guard

Healthcare Sergeant · Oct. 2016 to Current

- Led and mentored a team of five soldiers as a small group during deployment to Eastern Europe; developed their skills and coordinated clinical rotations, ensuring the training and development of 24 soldiers.
- Developed lower enlisted soldiers, guiding their execution of mission-critical tasks, as well as soldier development and leadership skills in the Army.

### Starbucks Coffee Company

Shift Supervisor · Nov. 2022 to Current

- Streamlined barista workflows, and ensured adherence to protocols for money exchange and food safety practices. Optimized store workflow, resulting in a 10% increase in revenue through faster drive-thru times.

### St. Charles Health System

Emergency Technician · Oct. 2018 to Aug. 2021

- Provided basic life support care for over 1000 patients, and saved over 20 lives using CPR.
- Managed patient overflow sections, requiring on-the-spot decisions to triage patients and provided immediate care where necessary.

## Certifications and Awards

Oregon Army National Guard · July. 2017 to Current

- Granted and currently holding an active secret security clearance.

Oregon Army National Guard · Nov. 2022

- Awarded NATO Overseas Service Ribbon in support of Operation Enhanced Forward Presence

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