David Lybeck

Tacoma, WA, USA

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SUMMARY

Motivated computer science student with a strong foundation in software engineering, supported by experience in enhancing unique AI-driven automation tools and improving document analysis capabilities. Proficient in Python and Java, with hands-on experience in Agile methodologies. Recognized for effective collaboration in various team settings and a commitment to continuous learning in dynamic environments. Eager to contribute and grow, available for full-time roles starting June 2025.

PROFESSIONAL EXPERIENCE

Software Engineering Intern

2nd Chair AI, Summer 2024

- **Implemented unique features** for identifying section headers and visualizing document structure, significantly improving the AI's content retrieval ability. Increasing the F1 score by 74% (.42 to .73)
  - **Helped lead** development of new strategies to extract and process complex document structures, including sections, subsections, paragraphs, citations/footnotes, and text, optimizing the AI's ability to interpret data
  - **Enhanced AI Response Quality:** Collaborated on R&D to develop automated document analysis in Python.

Technology Services Assistant I & II – Tacoma, WA

University of Puget Sound, Jan 2022 – Present

- Remotely providing support for students, faculty, and staff with various technology issues or directing them as needed from the school TS line. Improving soft-skills such as critical thinking and clarity with stressed and confused individuals
- Promoted from I to II after 5 months

Tennis Coaching – Portland, OR/Tacoma, WA

Portland Tennis Center, Galbraith Tennis Center, Tacoma Country and Golf Club, Jun 2022 – Aug 2024

- Led camps for adults and kids ages 4 -18. Developed leadership, group management, detailed observation and communication skills in highly dynamic environments over the course of many summers

PROJECTS

- NBA Match Prediction with high accuracy github.com/mattzou1/NBA-predictor Test it out!
  - Point differential prediction made using a convolutional neural network in Pytorch and Tensorflow, trained on a custom dataset
- Mock facility reservation management software for University of Puget Sound athletics using MongoDB
- Negamax Connect 4 bot, A* Sliding puzzle solver + more at dlybeck.com programs

EDUCATION/COURSES TAKEN

University of Puget Sound Class of 2025

Bachelor of Science in Computer Science, Minor in Mathematics (3.45 GPA)

- Computer Science Courses:
  - Algorithms and Data Structures | Intro to AI | Software Engineering | Intro to Databases | Computer Graphics | Network Programming | Operating Systems | Paradigms | Assembly Language and Computer Architecture |
- Other Studies/Interests:
  - Linear Algebra | Management | Statistics | Discrete Math | Spanish | Law and Ethics |

TECHNICAL SKILLS (and more)

- **Programming Languages:** Python, Java, JavaScript, HTML, CSS
- **Frameworks and Libraries:** FastAPI, Express, PyTorch, TensorFlow, Scikit-learn, Pandas, PyMuPDF
- **Tools:** Jupyter Notebooks, Git, VS code, IntelliJ
- **Methodologies:** Agile, Scrum, Waterfall
- Self-taught 3D modeling and printing, with over 50,000+ downloads of original 3D models across 4 websites
- DIII college tennis player