# David Lybeck

## Software Engineer

### Pacific Northwest

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## —— SUMMARY ——

Motivated computer science graduate with software engineering and entrepreneurial experience, including founding ScribbleScan, an AI handwriting digitization company with leading accuracy. Combines technical expertise in Python, Java, and AI/ML development with business acumen and a track record of delivering measurable impact. Available for full-time roles starting June 2025.

## —— PROFESSIONAL EXPERIENCE ——

### Founder and Developer

*ScribbleScan.app, Jan 2022 – Present*

- **Independently developed** and launched an innovative AI-based handwriting digitization company
  - **Achieved 90%+ character accuracy** on challenging documents where other top OCR/AI struggles (averaging below 75% accuracy), far exceeding current industry standards.
  - **Engineered solutions** for image/non-textual content preservation to ensure no data is lost in translation.

### Startup 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 – May 2025*

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

## —— PROJECTS ——

- NBA Match Prediction achieving 80% accuracy on 2024 playoffs including 3 upsets. Test it out!
  - Convolutional neural network trained on all NBA team statistics since 1980 using PyTorch and TensorFlow
- Mock facility reservation management software for University of Puget Sound athletics using MongoDB
- Negamax Connect 4 bot, A* Sliding puzzle solver + more at davidlybeck.com/#Programs

## —— EDUCATION/COURSES TAKEN ——

### University of Puget Sound Class of 2025

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

- Relevant Coursework:
  - AI | DSA| Software Engineering | Databases | Computer Graphics | Stats | Discrete Math | Linear Algebra
- Other Studies/Interests:
  - Management | Spanish | Business Law and Ethics | Ancient Greek Philosophy | Climate Modeling

## —— TECHNICAL SKILLS (and more) ——

- **Programming Languages:** Python, Java, JavaScript, HTML, CSS
- **AI-Assisted Development:** Proficient with tools like GitHub Copilot and Google Jules; leverages LLMs (Claude, ChatGPT, Gemini…) with an understanding of their diverse strengths and use cases for coding efficiency.
- **Frameworks and Libraries:** FastAPI, Express, PyTorch, TensorFlow, Scikit-learn, Pandas, PyMuPDF
- **Tools:** Jupyter Notebooks, Git, VS code, IntelliJ
- **Methodologies:** Agile, Scrum, Waterfall
- DIII **college tennis** player