Koby Renfert

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EDUCATION

Northwestern University   **Evanston, IL**
B.A. in Computer Science, B.A. in Economics   *June 2025*
- GPA: **3.88/4.00**
- **Relevant Coursework**: Data Structures and Algorithms, Machine Learning, Cloud Infrastructure, Artificial Intelligence, Object-Oriented Programming, Networking, Discrete Math, Algorithm Design and Analysis, Linear Algebra

EXPERIENCE

Incoming Forward Deployed Software Engineer   **November 2024 – Present**
Palantir   *New York City, NY*
Software Engineer Intern   **June 2024 – August 2024**
Paradigm   *Madison, WI*
- Developed a Jenkins job to automate Jira version synchronization with 61 Bitbucket repositories, eliminating 2-3 hours of senior developer manual entry per release and flagging commit and ticket errors
- Executed PostgreSQL data migration to improve backend product aliasing ability and increase SQL query accuracy by 30%
- Implemented 4 React navigation features to refine product filtering workflow and reduce filter and search time by 20%
- Engineered management dashboard integrating 3 APIs, streamlining code review and ticket tracking for a 13 developer team
- Created an end-to-end testing app for 3 DevOps tools, automating 350 test cases and cutting down testing time by 60%

Product Management Intern   **June 2023 – September 2023**
Springs Window Fashions   *Madison, WI*
- Architected a data pipeline using Python and R to transform competitor quote data from Excel to PowerBI, identifying 3 pricing strategy discrepancies and causing monthly price adjustments
- Reduced commercial SKU count by 12% and proposed 4 new fabrics through SKU rationalization, lowering excess inventory costs and expanding available factory and warehouse space for new products
- Enhanced SEO campaign through keyword extraction on 130,000 scraped words using Python + NumPy and scikit-learn

Financial Planning Intern   **June 2022 – September 2022**
Sky's Edge Wealth   *Madison, WI*
- Rebalanced 8 401(k) portfolios per week of $300,000-$3M using YCharts and Morningstar Advisor Workstation
- Decreased completion time of ETF / Mutual Fund selection process by 25%, improving weekly rebalance completions by 3

TECHNICAL SKILLS

- **Languages:** Python, C++, JavaScript, C#, C, TypeScript, SQL, CSS, LaTeX, HTML, R
- **Frameworks/Systems:** React, REST APIs, CI/CD, Flask, Tailwind CSS, Agile, FastAPI, DBMS, Linux, Node.js, .NET
- **Tools:** Git, AWS (Lambda, RDS, API Gateway, S3, EC2), Docker, Azure, Jira, Postman, DBeaver, Portainer, Storybook

PROJECTS

Sports Betting Line Breaker | *Python, FastAPI, SQL*   **February 2024 – Present**
- Fetched props from 4 sports books' public APIs to identify profitable line-setting discrepancies between books
- Designed a Python FastAPI app to serve results from a regularly updating SQL database, hosted on DigitalOcean Linux VM
- Achieved +600% ROI on 850 bets placed in the second half of the '23-'24 NBA regular season

Odds Converter | *Python, JavaScript, React, CSS*   **June 2024 – Present**
- Developed a React-based frontend application with custom state-management hooks to convert odds to implied probability
- Constructed a high-performance RESTful API architecture with FastAPI and API Gateway to send users real-time results

LEADERSHIP

Alpha Kappa Psi Professional Business Fraternity   **January 2024 – Present**
Treasurer   *Evanston, IL*
- Managed a $45,000 annual budget through billing members, auditing reimbursements, and planning budget allocations
- Formed a strategy to raise + reallocate funds, creating an additional $7,000 discretionary fund to boost operational flexibility

Northwestern Club Swim   **March 2022 – April 2023**
Practice Coordinator and VP   *Evanston, IL*
- Drafted and led workouts for 140 members, designed alternative sets to support accessibility and raise attendance
- Qualified for 2022 College Club Swimming National Championships at Georgia Tech in 2 individual events