ALEKS BEKKER

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EDUCATION

Rensselaer Polytechnic Institute (RPI)

Troy, NY

Bachelor of Science in Computer Science, GPA: 3.83

Anticipated December 2025

• Coursework: Data Structures, Algorithms 1 & 2, Operating Systems, Binary Exploitation, Object-Oriented Programming, Database Systems, Reinforcement Learning, Network Programming

• Dean's Honors List: Summer 2024, Spring 2024, Spring 2023, Fall 2022

Machine Learning Specialization

Coursera

Certification: https://coursera.org/verify/specialization/9E52XUPWTR23

July 2023

EMPLOYMENT

Vlachos Lab, Beth Israel Deaconess Medical Center, Harvard Medical School

Boston, MA

Student Researcher

February 2022 to December 2024

- Spearheaded the development of a framework to simplify the automation and benchmarking of several cell type annotation tools using Python, R, and PyTorch
- Developed analyses to compare the results of multiple cell type annotation tools, projected to increase research speed by up to 100%
- Developed a backend service in Python & Flask to streamline researcher interaction with spatial genetic information
- Investigated the identification of novel cell types using large language models

House Trevethan, LLC Tucson, AZ

Junior Web Developer

August 2020 to September 2021

· Consulted with clients to deliver design and feature requests to maintain their websites

SKILLS & AWARDS

Programming Languages: Python, Golang, Java, TypeScript, Rust, C, x86 Assembly

Databases & Tools:PostgreSQL, MySQL, Git, React, Flask, Shell Scripting, GitHub Actions, Supabase, OAuthMachine Learning:Neural Networks, Large Language Model Prompt Engineering, Model Context Protocol

Operating Systems: Linux (Red Hat Enterprise Linux and Ubuntu), Windows, MacOS

Languages: English, Russian

PROJECTS

Treasurer

Rensselaer Society of Engineers Alumni Networking Site

Troy, NY

Technical Lead & Lead Developer

April 2025 to Present

- Directed the technical design phase for a 4-person team, establishing the platform's React/Flask/Supabase stack
- · Orchestrated discussions around system architecture and core feature set to optimize alumni-student interaction
- Integrated third-party identity provider OAuth with Supabase Auth to enable SSO-based authentication while delegating session management and role enforcement across the stack
- Initialized all project repositories, including CI/CD bootstrapping, API design templates, and contribution guidelines, ensuring a scalable development workflow for a 5+ developer team
- Delivered reusable backend scaffolding to guide secure and efficient implementation by the broader engineering team

EzASM (Rensselaer Center for Open Source)

Troy, NY

Project Lead, Contributor

January 2024 to August 2024

February 2025 to Present

May 2024 to August 2024

- Contributed to language implementation for a simplified assembly-like language for the classroom
- Oversaw a front-end architecture overhaul from JavaScript to TypeScript to improve maintainability and reliability

LEADERSHIP EXPERIENCES

Rensselaer Society of Engineering & Innovation

Troy, NY

Managed and allocated a \$290,000 annual budget to support organization-wide initiatives

- Rebalanced a two-quarter budget to address a 9% revenue shortfall while preserving core operations
- Served on the executive committee, contributing to strategic planning, decision-making, and execution

• Served on the executive committee, contributing to strategic planning, decision-making, and execution Network Administrator

May 2024

- Deployed, monitored, and maintained network for over 300 total devices
- Led a team of six to maintain the organization's network infrastructure and deploy essential software

Event Manager

May 2024

• Organized and executed multiple events hosting 50+ attendees, including a flagship event with over 100 participants

May 2024 to December 2024