# 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
- **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*                                                                                                           *June 2023 to Present*
- Developed a backend service to streamline interaction with spatial genetic information for researchers
- Investigated the identification of novel cell types using large language models

*Student Researcher*                                                                                     *February 2022 to December 2022*
- Spearheaded the development of a multi-language framework to simplify the automation and benchmarking of several cell type annotation tools
- Developed statistical analyses to assess the results of automatic cell type annotation tools, projected to increase research speed by up to 100%

**House Trevethan, LLC**                                                                                                                     *Tucson, AZ*
*Junior Web Developer*                                                                                       *August 2020 to September 2021*
- Worked with clients to gather requirements on design and feature intentions
- Delivered design and feature requests and maintained existing clients' websites

## SKILLS & AWARDS

| | |
|---|---|
| **Programming Languages:** | Python, Golang, C, Java, x86 Assembly |
| **Databases & Tools:** | PostgreSQL, MySQL, Git, Shell Scripting, GitHub Actions |
| **Machine Learning:** | Neural Networks, Large Language Model Prompt Engineering |
| **Operating Systems:** | Linux (Red Hat Enterprise Linux and Ubuntu), Windows |
| **Languages:** | English, Russian |
| **Awards:** | Eagle Scout Award |

## PROJECTS

**Git Commit Linker**                                                                                                           *May 2024 to Present*
- Created robust POSIX-compliant script to generate and validate links to a user's code on GitHub
- Leveraged parallel programming in Golang to optimize client-server interactions, enabling large inputs to be processed with performance comparable to single-input operations

**EzASM** (Rensselaer Center for Open Source)                                                                            *Troy, NY*
*Project Lead, Contributor*                                                                                  *January 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*
*Treasurer*                                                                                                            *February 2025 to Present*
- Managed and allocated a $113,000 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 decision-making and long-term financial planning

*Network Administrator*                                                                                                 *May 2024 to Present*
- 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 to December 2024*
- Organized and executed multiple events hosting 50+ attendees, including a flagship event with over 100 participants
- Developed event management policies to standardize event logistics and operations