

# Ryan Kilpadi

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Cambridge, MA | 617-906-1615 | rkilpadi@vassar.edu | github.com/rkilpadi

## EDUCATION

**Vassar College, Poughkeepsie, NY**

*Expected May 2025*

Bachelor of Arts in Applied Mathematics, Minor in Computer Science

**Major GPA:** 3.94 / 4.00

**Commonwealth School, Boston, MA**

*June 2021*

High School Diploma

**Britannica International School, Budapest, Hungary**

*Aug 2011 - June 2017*

## PROFESSIONAL EXPERIENCE

**Amazon Web Services, Boston, MA**

*May 2023 - Aug 2023*

Software Engineer Intern | AWS ParallelCluster

- Developed a **Chef** script to install the Spack package manager on HPC clusters
- Gained hands-on **Linux** expertise through managing packages, users, and compilers
- Updated ParallelCluster UI architecture to enable restricted access within a private VPC
- Automated creation and configuration of AWS Services such as **API Gateway**, **Lambda**, and **S3**
- Co-authored an official customer-facing **AWS blog post** about the previous year's project
- Exceeded initial expectations by completing two major projects

**Amazon Web Services, Seattle, WA**

*Jun 2022- Aug 2022*

Software Engineer Intern | AWS ParallelCluster

- Gained insights from experienced developers while contributing to a large open-source project
- Engineered a **Chef** script to enable the Slurm API on HPC clusters, enhancing job submission via UI
- Configured **NGINX** to function as a secure reverse proxy for HTTPS API calls
- Integrated functionality into a **React**-based frontend and extended API endpoints using **Flask**
- Completed initial project scope within one month

**Vassar College, Poughkeepsie, NY**

*Aug 2023 - Present*

Linear Algebra Teaching Assistant | Mathematics Department

**Vassar College, Poughkeepsie, NY**

*Sep 2021 - May 2022*

Regional and International Programs Assistant | Alumnae Office

- Collaborated with the Vassar alumni office to organize events and activities
- Traveled to New York City to help run alumni events

## INDEPENDENT PROJECTS

- Personal website with interactive p5.js background using SvelteKit
- Multiplatform mobile app with web scraping for the Vassar cafeteria in Kotlin/Swift
- 2-Player chess game in Java
- Arcade games including Pong, Duck Hunt, Bomber, and Snake in Scheme

## SKILLS

**Programming Languages:** Python, JavaScript, TypeScript, Java, Kotlin, Ruby, Go, Racket, Bash

**Technologies and Tools:** Git, Linux, AWS, NGINX, Docker, React, Jest

**Languages:** French (Conversational)