Ryan Kilpadi

Cambridge, MA | 617-906-1615 | ryan@kilpadi.com | github.com/rkilpadi | ryan.kilpadi.com

EDUCATION

Vassar College, Poughkeepsie, NY *Expected May 2025*
Bachelor of Arts in Applied Mathematics, Minor in Computer Science
Major GPA: 3.94 / 4.00

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
- Revamped 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 Grading Assistant | Mathematics Department
- Grade weekly homework and exams for over 30 students

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
- Interactive Turing machine simulator in React
- Multiplatform mobile app with web scraping for the Vassar cafeteria in Kotlin and 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, HTML/CSS, Bash
Technologies and Tools: Git, Linux, AWS, NGINX, Docker, React, Jest, SQL
Languages: French (Conversational)