

Damian René

Full-Stack Engineer | Willing to relocate | Available to start June 2027

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EDUCATION

Swarthmore College

B.A. Computer Science

GPA: 3.7/4.0

Expected May 2027

Swarthmore, PA

Relevant Coursework: Data Structures and Algorithms, Artificial Intelligence, Open Source Software Development, Computer Networks, Computer Graphics, Human Computer Interaction, Computer Systems, Social Computing

EXPERIENCE

Software Engineering Intern, Full-Stack

June 2026 – Aug 2026

Shinkei Systems

Los Angeles, CA

- Led ground-up redesign of a company-wide internal platform for data analysis, influencing daily business decisions.
- Deployed full AWS stack utilizing EC2, ECS, RDS, Lambda supporting 100+ employees.
- Built an efficient pipeline for 1M+ events a day, reduced ETL processing time by over 95%.

Computer Science Teaching Assistant

Sep 2025 – Aug 2026

Swarthmore College

Swarthmore, PA

- Assist Professor Sukrit Venkatagiri in teaching and grading for Social Computing course, influencing course development.
- Delivered multiple lectures on topics such as: introduction to Docker, packaging and deploying web apps with Docker, and introduction to React to **30+ students**.

Club President | SysAdmin | Treasurer, Full-Stack Engineer

Sep 2023 - Present

Swarthmore College Computer Society

Swarthmore, PA

- Lead student-run club focused on developing free software to address **campus-wide challenges**, managing all aspects of club operations and strategy.
- Manage enterprise-grade hardware, overseeing 3+ server deployments that handle **4k+** daily active users via **Proxmox** and coordinating 120TB of storage, comprehensive backup strategies, self hosted DNS, and multi GPU AI cluster.
- Allocated and managed annual budget of 10k+ a year, ensuring resources are distributed effectively across server maintenance and software projects.

PROJECTS

Corridorkey.cloud | Docker Swarm, CI/CD, DevOps

- Enabled a fully self-hosted, cloud-independent GPU compute platform for **2,000+ users** by designing and deploying production infrastructure end-to-end, including DNS, mail, and edge security.
- Designed multi-node swarm cluster backed by Github Actions for automatic, zero-downtime deployments.
- Reduced abusive traffic and account-creation attacks to near-zero by deploying CrowdSec for real-time detection alongside Traefik-based mitigation, in direct response to a live security incident.

Budget Buddy: Swarthmore | React Native, Expo, App Store Connect

- Co-founded React Native budgeting app, Budget Buddy, that captured **2000 App Store impressions** in the first two months.
- Developed a working GET Mobile integration through reverse engineering, the college's ID/payment-management app, overcoming the lack of a public API.

Swarthmore Course Planner | Docker, TypeScript, Next.js, PostgreSQL

- Streamlined class scheduling for Swarthmore students, through a complete redesign of previous course planner, resulting in an **400%** user increase up to **500 active users** per semester.
- Optimized performance, reducing total blocking time by over **10×** through efficient API route handling and high-performance database queries.
- Aggregated and normalized data from multiple sources (Rate My Professor, official course listings, and user-generated reviews) into a unified, seamless user experience, increasing platform engagement and time-on-site.

TECHNICAL SKILLS

Languages & Frameworks: TypeScript/Javascript, Python, HTML/CSS, React, React Native, Next.js, Node.js

Infrastructure & Tools: Docker Swarm, Git, Github Actions, AWS (EC2, RDS, Lambda)