

# DECLAN BLANCHARD

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## EDUCATION

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### New Jersey Institute of Technology

Bachelor's, Computer Science

May 2026

3.8 GPA

## EXPERIENCE

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### Patreon

Software Engineer Intern

New York, NY

May 2025 - August 2025

- Built a **Python-based ChatOps** platform for **200+ engineers** to automate tasks including canary deployments, provisioning remote servers, and handling on-call lookups
- Migrated from ad-hoc EC2 to **Kubernetes** (EKS), leveraging **Terraform**, **CircleCI**, and **Argo CD** to streamline deployment and align with modern standards
- Proactively connected with the product support team and partner managers, utilizing the **Zendesk API** and **Slack SDK** to eliminate manual handoffs and reduce support-ticket lookup times between teams

### New Jersey Institute of Technology

Full Stack Developer

Newark, NJ

January 2025 - Present

- Developed a web app to serve **10,000+ students** using React + Next.js (TypeScript) and Node.js API routes backed by MongoDB, enabling course planning with advanced features including multi-schedule comparison, automatic optimization, and semester to semester tracking
- Drove continuous improvements by documenting workflows, focusing on strong UI/UX principles, performance optimization, cross-browser compatibility, and ensuring smooth communication throughout the team

### theCoderSchool

Code Tutor

Berkeley Heights, NJ

March 2024 - August 2024

- Taught coding fundamentals to over 15 students across a wide variety of programming languages
- Collaborated with educators to develop and deploy a browser extension that improved student focus by restricting non-educational features on learning platforms

## SKILLS

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**Languages:** Python, C, C++, JavaScript, TypeScript, Java, PHP, SQL

**Full-Stack:** React, Next.js, Vue, Node.js, MongoDB, Zustand, Tailwind, Slack SDK, Zendesk API

**DevOps & Tooling:** AWS, Datadog, Kubernetes, Terraform, ArgoCD, CircleCI, Git, Bash

## PROJECTS

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### Mini C-Like Programming Language

- Built a custom programming language using C++. Optimized memory management and algorithmic complexity to ensure efficient parsing and tokenization
- Created 50+ comprehensive test cases to ensure 100% reliability across core language functions, showcasing accurate parsing, performance, and scalability for future enhancements

## INVOLVEMENT & LEADERSHIP EXPERIENCE

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### Student Senate Committee for Student Affairs

- Led student advocacy initiatives resulting in improved campus resources for 10,000+ students
- Collaborated with university leadership to enhance student engagement and policy implementation to improve campus life

### Association for Computing Machinery

- Participated in workshops, coding competitions, and speaker sessions to deepen technical skills and expand professional network