

# 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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### New Jersey Institute of Technology

Full Stack Developer

Newark, NJ

January 2025 - Present

- Developed a schedule builder web app to serve 10,000+ NJIT students, enabling course planning with advanced features including multi-schedule comparison, automatic optimization, and semester to semester tracking
- Drove continuous improvements in projects by documenting workflows, focusing on strong UI/UX principles, performance optimization, cross-browser compatibility, and ensuring smooth communication throughout the team

### Patreon

Software Engineer Intern

New York, NY

May 2025 - August 2025

- Built and deployed a Slack application used by the entire engineering department (~200 users) to automate canary deployments, provision remote development environments, and handle on-call lookups. Streamlining operations and boosting developer productivity
- Utilized Python and deployed the service on Kubernetes with AWS EKS, leveraging a Terraform, CircleCI, ArgoCD CI/CD pipeline to reduce tech debt, improve maintainability, and align with modern system design
- Proactively extended the project by designing and developing a Zendesk API-driven support ticket lookup tool in Slack, collaborating with Product Support leadership and Partner Managers to refine requirements and workflows. Cutting ticket resolution times by 99% and eliminating manual handoffs.

### 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 Development:** React, Next.js, Vue, Node.js, MongoDB, Zustand, Tailwind

**DevOps & Tooling:** AWS, EKS, ECR, Terraform, ArgoCD, CircleCI, Linux/Unix, 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