

# 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

## PROFESSIONAL EXPERIENCE

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### Patreon

Software Engineer Intern

New York, NY

May 2025 - Present

- Built and deployed a Python Slack application on AWS EKS, implementing a full CI/CD pipeline with Terraform, ArgoCD, and CircleCI to improve maintainability and align with the company's Python-first, Kubernetes approach
- Independently went beyond original project scope to lead the design, development, and deployment of a support ticket lookup tool utilizing the Zendesk API
- Engaged directly with Product Support leadership and Partner Managers to understand requirements and optimize user workflows, resulting in 99% faster ticket resolution and eliminating manual hand-off processes

### 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

### 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

## TECHNICAL SKILLS

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

**Frontend:** React, Next.js, Vue, Tailwind CSS

**Backend:** Node.js, MongoDB, Zustand

**Tools & Environments:** 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 3+ 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 advanced workshops, coding competitions, and industry speaker sessions to deepen technical skills and expand professional network
- Engaged in discussions on emerging technologies such as AI, blockchain, and cloud computing, applying knowledge to personal projects and coursework