DECLAN BLANCHARD

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EDUCATION

New Jersey Institute of Technology *May 2026*
Bachelor's, Computer Science 3.8 GPA

EXPERIENCE

Patreon *New York, NY*
Software Engineer Intern *May 2025 - August 2025*
- Built a **Python-based ChatOps** platform for a company with **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 worked with product support and partner manager teams, leveraging the **Zendesk API** and **Slack SDK** to eliminate manual handoffs and reduce support-ticket lookup times

New Jersey Institute of Technology *Newark, NJ*
Full Stack Developer *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 *Berkeley Heights, NJ*
Code Tutor *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

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

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

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