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 **200+** engineers to automate complext tasks
- Migrated ad-hoc EC2 to **Kubernetes** (EKS), leveraging **Terraform**, **CircleCI**, and **Argo CD**
- 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 *Newark, NJ*
Full Stack Developer *January 2025 - Present*
- Developed a course planning web app to serve **10,000+** students
- Used **React + Next.js (TypeScript)** and **Node.js** API routes backed by **MongoDB**
- Enabled advanced features including schedule comparison, optimization, and semester tracking
- Managed client state with **Zustand** and standardized UI with **Mantine** and **Tailwind**

theCoderSchool *Berkeley Heights, NJ*
Code Tutor *March 2024 - August 2024*
- Taught fundamentals to **15+** students across **Python**, **Java**, **JavaScript**, **C/C++**, **PHP**, and **SQL**
- Introduced version control and shell basics with **Git**, **Linux/Unix**, and **Bash**
- Collaborated with educators to develop a **JavaScript** browser extension that improved student focus

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
- Implemented lexer, parser, and tokenization in **C++** with careful memory management; compiled and tested on **Linux/Unix** using **Bash**
- 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 directly with university leadership to improve campus life