Vincent Keats

Product Engineer | Full-Stack Developer

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Summary

Self-taught full-stack developer who builds automation systems that solve real operational problems. Designed and deployed production-grade crew management platform managing 3,485+ workers and 38,720+ skill records. Experienced with TypeScript, Next.js, React, and AI-powered integrations. Seeking Product Engineer role to build tools that improve operational workflows.

Technical Skills

Languages:
TypeScript, JavaScript, SQL, HTML/CSS

Frameworks:
Next.js 15, React 19, Tailwind CSS

Databases:
SQLite, Better-SQLite3, SQL schema design

APIs & Integration:
REST APIs, Webhooks, OpenAI API, SMS providers (Twilio, YakChat)

Auth & Security:
NextAuth.js, session management, rate limiting, API protection

Tools:
Git, npm, AI-assisted development (Claude Code), Notion

Testing:
Jest, Playwright, integration testing

Projects

The Board - Dispatch Automation Platform
Independent Development
June 2024 - Present

Built comprehensive crew management system that reduced dispatch workflow from 45 minutes to 5 minutes through intelligent automation.

Technical Implementation:

- Architected 130+ REST API endpoints with full authentication and authorization
- Designed 35-table relational database managing 3,485+ workers and 38,720+ skill records
- Implemented AI-powered SMS integration with multi-provider support (Twilio, YakChat, TextMagic)
- Built intelligent crew matching engine with conflict detection and seniority-based assignment
- Developed real-time monitoring system with structured logging and analytics dashboard
- Achieved 100% API route protection with NextAuth.js sessions and rate limiting
- Created 56 database migrations with full rollback support

Impact: Currently processing all personal dispatch operations in production with pending evaluation for organizational rollout to 400+ users.

Tech Stack: TypeScript, Next.js 15, React 19, SQLite, NextAuth.js, OpenAI API, Tailwind CSS, Better-SQLite3

Professional Experience

Dispatch Operations Coordinator
IATSE Local 118
March 2024 - Present | Vancouver, BC

- Coordinate crew assignments for theatrical productions across Vancouver's Lower Mainland
- Match skilled workers to events based on qualifications, availability, and union seniority rules
- Led operational improvements: migrated team from OneNote to Notion, designed workspace architecture
- Manage scheduling conflicts and real-time event coordination

Theatre & Film Production
Various Productions
2019 - 2024 | Vancouver, BC

Production Assistant, Stagehand, Health & Safety Officer for NBC, Disney, Lionsgate productions. Experience includes on-set operations, equipment logistics, and crew coordination.

Education

Applied Diploma in Performance and Stage Production
Canadian College of Performing Arts | Victoria, BC

Self-Taught Software Development
Focus: Full-stack web development, AI integration, production systems architecture

References available upon request