

# ARUN KHADKA

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## SUMMARY

Full-Stack Developer and Senior Computer Science student delivering production-ready web and mobile applications with measurable business impact. Proficient in React, TypeScript, Node.js, PostgreSQL, and AWS, with experience reducing costs by 40%+ and building platforms for 22,000+ users. Skilled in REST APIs, microservices, CI/CD, real-time systems, Docker, automated testing, and agile workflows.

## EDUCATION

### Northern Kentucky University

*Bachelor of Science in Computer Science, Minor in Mathematics*

Highland Heights, KY

*Aug. 2022 – May 2026*

## WORK EXPERIENCE

### Software Engineer (Freelance)

June 2025 – July 2025

*Client Project at PLT Seahorse LLC*

*Cincinnati, OH*

- Architected and developed a comprehensive business management platform with real-time synchronization capabilities across multiple user interfaces
- Engineered native Android application with live push notifications to streamline staff communication and order coordination
- Built secure user authentication system with role-based access for different staff levels
- Reduced payment processing fees from 5% to 2.9% by implementing a custom payment solution
- Engineered inventory tracking and substitution algorithms for dynamic updates across connected interfaces

### Software Engineering Fellow

Aug. 2024 – Sep. 2024

*Headstarter AI Fellowship*

*Remote*

- Completed a 7-week intensive program with 10,000+ global participants, focused on building production-ready AI applications.
- Built a healthcare-focused AI chatbot, implementing retrieval-augmented generation with OpenAI APIs and vector-based retrieval.
- Collaborated in a four-person team to provision and manage scalable AWS EC2 infrastructure for deployment

### Web Developer (Freelance)

Apr. 2024 – May 2024

*Client Project at PLT Seahorse LLC*

*Cincinnati, OH*

- Created a custom CMS-driven WordPress platform with a mobile-first responsive design
- Integrated modular plugin architecture for easy feature expansion and optimized site SEO for increased discoverability

### Web Developer (Freelance)

Feb. 2024 – Mar. 2024

*Client Project at PLT Seahorse LLC*

*Highland Heights, KY*

- Built a responsive website using HTML, CSS, and Bootstrap, delivering a clean, modern, and mobile-friendly interface
- Designed interactive UI components that improved navigation and reduced order placement time, contributing to an estimated \$1,000/day increase in pickup order value
- Enhanced accessibility and SEO, resulting in 1,000+ monthly active users and 21,000+ pageviews
- Restored full site functionality during a critical outage in under one hour, minimizing downtime

## TECHNICAL SKILLS

**Frontend Development:** React, Next.js, JavaScript, TypeScript, HTML5, CSS3, Tailwind CSS, SASS, Bootstrap, Redux

**Backend Development:** Node.js, Express.js, Python, Java, REST APIs, PostgreSQL, MySQL, MongoDB, JWT, Microservices

**DevOps & Infrastructure:** Linux, Docker, Git, GitHub Actions, CI/CD, AWS, Nginx, Bash, SSH, SSL/TLS, System Administration, Load Balancing, Cloud Infrastructure, Monitoring & Logging

**Testing & Methodologies:** Jest, Postman, Unit Testing, Integration Testing, Agile, Scrum, TDD, Version Control