IBRAHIM ABDULKARIM

Software Engineer | AI/ML Enthusiast | Independent Builder

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OBJECTIVE

Self-taught software engineer with proven ability to independently build complex technical systems and rapidly master emerging technologies. Seeking to contribute to frontier AI research through OpenAI's Residency program, leveraging strong foundation in software engineering, mathematics, and demonstrated track record of turning ambitious ideas into production systems reaching millions of users.

TECHNICAL PROFILE

Programming & Development

- **Languages:** Python, JavaScript/TypeScript, Solidity, Node.js
- **ML/AI Exposure:** Participated in MLH Global Hack Week (AI Week, Data Week), hands-on experience with AI/ML frameworks
- **Full-Stack:** React.js, Next.js, Vue.js, Node.js, Express, GraphQL, RESTful APIs
- **Systems:** Built distributed systems, cross-chain platforms, and high-transaction applications (100K+ transactions)

Mathematical Foundation

- Bachelor's in Mechanical Engineering (strong foundation in calculus, linear algebra, differential equations, statistics)
- Applied mathematical concepts in software optimization, algorithm design, and blockchain protocols
- Self-study in machine learning fundamentals, probability theory, and computational mathematics

Development Approach

- Rapid prototyping and iterative development
- Comfortable in unstructured environments with open-ended problems
- Strong independent learning and self-study capabilities
- Experience architecting systems from scratch to production

NOTABLE ACHIEVEMENTS

🏆 **Chainlink Chromion Hackathon Winner - Avalanche Track** (2024)

- Won competitive international hackathon out of hundreds of participants
- Built **Festify**: Cross-chain greeting platform deployed across 4+ blockchains
- Architected smart contracts for multi-chain interoperability, achieving 100,000+ transactions

- Demonstrated rapid learning by mastering new blockchain protocols within hackathon timeframe
- Official Announcement

🎓 BuidlGuidl Top Cohort Graduate - Batch 13 (2024)

- Recognized as top performer in competitive monthly builder cohort
- Selected from global pool of applicants for excellence in technical execution
- Completed complex blockchain development challenges under mentorship of senior developers

💻 Multiple Hackathon Victories & Recognition

- **Encode Club Autonomous Apes Hackathon:** Winner (Gaia bounty track)
- **Encode Club HyperHack Hackathon:** Winner (Hyperion testnet - Metis ecosystem)
- **Hacktoberfest 2023:** Active open-source contributor across multiple repositories

🚀 High-Impact Projects Built Independently

PROFESSIONAL EXPERIENCE

Head of Software Department | Galaxy Information Technology and Telecommunications

April 2025 - Present

- Lead technical strategy and oversee complete software development lifecycle for enterprise clients
- Architect scalable systems and establish engineering best practices across development teams
- Mentor and train emerging developers, designing comprehensive engineering curriculum
- Drive technical innovation and make high-level architectural decisions
- **Key Achievement:** Promoted from developer to department head in <1 year, demonstrating rapid growth

Full-Stack Developer | Galaxy Information Technology and Telecommunications

April 2024 - April 2025

- Built production applications using modern frameworks (React, Node.js, TypeScript)
- Collaborated directly with clients to translate business requirements into technical solutions
- Implemented performance optimizations and maintained high code quality standards
- Contributed to architectural decisions and technical documentation

Global Hack Week Participant | Major League Hacking (MLH)

2022 - 2024

- **AI Week:** Developed projects leveraging artificial intelligence and machine learning technologies
- **Data Week:** Built data-intensive applications and explored data science methodologies
- Gained hands-on experience with emerging AI/ML technologies through workshops and challenges
- Collaborated with global developer community on cutting-edge technical problems
- Demonstrated ability to rapidly learn and apply new technologies in compressed timeframes

Gold Fellow (Software Developer) | The Room

February 2023 - March 2024

- Selected as Gold Fellow through competitive application process
- Contributed to collaborative software projects in agile environment
- Participated in peer programming sessions and technical knowledge exchange
- Maintained production systems and implemented feature enhancements

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KEY TECHNICAL PROJECTS

Festify - Cross-Chain Greeting Platform | festify.club

Tech Stack: Solidity, React, TypeScript, Web3.js, Multi-Chain Protocols

- Independently designed and built sophisticated cross-chain NFT platform
- Deployed smart contracts across multiple blockchains (Celo, Optimism, Base, Avalanche)
- Architected system for seamless multi-chain interoperability and transaction handling
- Achieved 100,000+ transactions, demonstrating scalability and production readiness
- **Impact:** Won Avalanche Track at Chainlink Chromion Hackathon

ArbiLearn - Learn-to-Earn Education Platform | arbilearn.club

Tech Stack: Node.js, React, Blockchain Integration, Database Architecture

- Created innovative platform incentivizing education through blockchain-based rewards
- Built complete system architecture including backend APIs, frontend interface, and reward distribution
- Designed user experience making complex blockchain concepts accessible to non-technical users
- Scaled to millions of users, demonstrating ability to build and maintain high-traffic applications
- **Impact:** Democratized access to Web3 education for global audience

Additional Projects

- Multiple hackathon projects exploring AI/ML applications, decentralized systems, and novel protocols
- Open-source contributions to various repositories during Hacktoberfest and community initiatives
- Independent experiments with emerging technologies and frameworks

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LEARNING VELOCITY & SELF-STUDY

Self-Taught Engineering Journey

- Transitioned from Mechanical Engineering background to software engineering entirely through self-study
- Completed comprehensive software engineering curriculum (ALX Software Engineering Program)
- Self-directed learning through freeCodeCamp, online courses, and hands-on project building
- Demonstrated ability to rapidly master new technologies, frameworks, and paradigms

AI/ML Self-Study

- Active participation in MLH AI Week workshops and challenges

- Exploring machine learning fundamentals through practical projects and online resources
- Building foundational understanding of neural networks, deep learning, and AI architectures
- Following frontier AI research and experimenting with emerging AI technologies

Continuous Learning

- Regular participant in technical hackathons for exposure to new technologies
- Active in developer communities and open-source ecosystems
- Committed to staying current with latest developments in AI, blockchain, and software engineering

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EDUCATION

Bachelor's Degree in Mechanical Engineering | Graduated 2016

- Strong mathematical foundation: Linear Algebra, Calculus, Differential Equations, Statistics, Probability Theory
- Engineering problem-solving methodology and analytical thinking
- Applied mathematics in computational modeling and systems optimization

Professional Certifications

- **ALX Software Engineering Program** - Comprehensive software engineering curriculum
- **freeCodeCamp** - Full Stack Web Development (multiple certifications)
- Additional certifications in various technologies and frameworks

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CORE COMPETENCIES

Technical Excellence: Extremely proficient in Python, JavaScript/TypeScript, and modern software development practices. Able to independently architect, build, and deploy complex systems from concept to production.

Mathematical Aptitude: Strong foundation in linear algebra, calculus, statistics, and probability through engineering education. Comfortable with advanced mathematical concepts and their application in computational systems.

Rapid Experimentation: Demonstrated ability through hackathon wins to quickly prototype, iterate, and deliver functional solutions under time constraints.

Research Mindset: Self-directed learner with curiosity about fundamental problems in AI and intelligence. Active exploration of emerging technologies and research directions.

Collaboration: Experience working in team environments while maintaining ability to work independently on ambiguous, open-ended challenges.
