

# ABHIMANYU CHADDHA

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## EDUCATION

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### Indiana University Bloomington

Bloomington, IN

Bachelor of Science in Computer Science, Minor in Finance, Math – GPA: 3.849/4.0

Aug 2023 – May 2027

- **Relevant Coursework:** Data Structures & Algorithms, Systems Programming (C & UNIX), Computer Structures, Discrete Structures, Software Systems (Honors), Secure Protocols, Mobile App Development (iOS)
- **Mathematics & Statistics:** Calculus I–II, Applied Statistics, Mathematics of Cybersecurity

## PROJECTS

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### Stock Portfolio Tracker | React, Express, MongoDB, JWT, REST APIs

2025

- Built a full-stack web application for tracking stock portfolios with real-time data integration.
- Implemented secure JWT authentication, hashed password storage, and protected API routes.
- Enabled dynamic portfolio updates and persistent backend synchronization across sessions.

### Query Engine | C, File I/O, Hash Indexing

2024

- Developed a query engine that parses and tokenizes university-related documents to evaluate search queries.
- Implemented optimized hash-based indexing for fast term lookups and efficient AND/OR query evaluation.
- Handled complex multi-word queries and attribute-based conditions with custom parsing logic.

### City Finder App | SwiftUI, REST APIs, Core Data, MapKit

2024

- Developed an iOS app to explore U.S. cities using public APIs with asynchronous networking.
- Integrated MapKit and CLGeocoder for location-based search and offline access via Core Data.
- Designed an intuitive mobile interface with SwiftUI and SceneKit for 3D interactive elements.

## ACTIVITIES

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### Cybersecurity Club

Member

2024 – Present

- Participate in technical workshops, speaker events, and peer-led discussions on software engineering, systems, and cybersecurity topics.
- Collaborate on small projects and capture hands-on experience with security tools, coding challenges, and team problem-solving.

### Club Tennis

Member

2024 – Present

- Compete in organized practices and matches, demonstrating discipline, teamwork, and consistent time management alongside academic commitments.

## CERTIFICATIONS

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### CompTIA Security+ (SY0-701)

Jan 2026 – Jan 2029

## TECHNICAL SKILLS

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**Languages:** Python, Java, C, JavaScript, Swift, SQL, TypeScript

**Frameworks/Libraries:** React, Node.js, SwiftUI, Chart.js, Tailwind CSS

**Databases:** MongoDB

**Developer Tools:** Git, GitHub, UNIX Shell, Xcode, VS Code, Linux

**Concepts:** REST APIs, Authentication, Data Structures, Algorithms, Memory Management, File I/O, Agile Methodology