

# Rithvik Nakirikanti

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## EDUCATION

**Boston University**, Graduate School of Arts and Sciences  
Masters of Science in Computer Science

May 2025

GPA: 3.76/4.00

**Boston University**, College of Arts and Sciences  
Bachelor of Arts in Computer Science

**Relevant Coursework:** Full Stack Software Engineering, Database Systems, Operating Systems, Data Structures and Algorithms, Distributed Systems, Android Programming, Data Science, Discrete Math, Applied Machine Learning, Artificial Intelligence.

## WORK EXPERIENCE

**Verizon** | Basking Ridge, NJ

Jun 2023 - Aug 2024

*Software Engineering Intern - Infrastructure*

- Led the migration of DMAT from AWS to on-premise OpenShift infrastructure, saving \$0.9 million annually.
- Developed CI/CD pipelines with Jenkins and Argo CD; redesigned ZFS storage for redundancy and performance.
- Optimized Java microservices and Apache Spark pipelines to process 500+ TB of log data, enhancing system efficiency.

*Product Engineering Intern - Consumer Security*

- Collaborated with Engineering and Network team to design a network SMS phishing solution concept to file for a patent.
- Optimized Verizon's \$1.2B security portfolio by supporting the Digital Secure Refresh launch and analyzing 29M app installs to deliver key improvements.

**Avis Budget Group** | Parsippany, NJ

Jun 2022 - Aug 2022

*Software Engineering Intern - Mobile Apps*

- Engineered an Android tool in Kotlin to automate environment and API endpoint switching, cutting runtime by 10%.
- Created a Python web-scraping script to aggregate 537+ customer reviews, aiding in service improvement analysis.

## ACTIVITIES

**Boston University** | Boston, MA

Sep 2023 - Present

*Teaching Assistant - CS 460 Introduction to Database Systems*

- Guided 280+ students in a course on database systems, covering data models, SQL, distributed, and noSQL databases.
- Instructed lab sessions, held weekly office hours, assisted in designing course materials, and mentored new course assistants.

*Course Assistant - CS 210 Computer Systems*

- Supported 300+ students in understanding processor design, memory systems, and instruction-set architecture.
- Led office hours and lab sessions, offering hands-on guidance in assembly language and C; facilitated exam prep.

**BU Upsilon Pi Epsilon Computer Science Honor Society** | Boston, MA

Nov 2021 - May 2023

*Director of Operations*

- Directed logistics and organized 20 meetings with alumni and professors to provide networking opportunities to members.
- Created an extension using Selenium and JavaScript to integrate RateMyProfessor ratings into BU course registration pages.

## PROJECTS

**CarFinder: Facebook Marketplace Car Buying Assistant**

June 2024 - Present

- Built a React.js and Node.js app to search FB Marketplace for cars based on user preferences, improving local car search.
- Developed a Selenium-based scraper to automate searches and compile car listings, storing results in a Postgres database.
- Integrated a TensorFlow AI model to classify sellers as private individuals or dealers, improving listing relevance for users.

**Senator Ed Markey: Equity in Federal Budget Earmaking Processes**

Jan 2024 - May 2024

- Developed an automated tracking system with Python and SQL for real-time monitoring of CDS requests.
- Built a Tableau dashboard to visualize equity impacts of CDS requests and approvals, streamlining disparity identification.

**Timo**

Jan 2023 - May 2023

- Developed a Flutter and Dart smart scheduling app with Google Calendar integration for seamless event management.
- Enhanced user experience with weather notifications and Google Maps API for optimized route planning and punctuality.
- Led backend development, ensuring reliable data retrieval and local storage for offline access.

## SKILLS & CERTIFICATIONS

**Programming:** Java, Kotlin, Python, Dart, XML, Go, HTML/CSS, C, Assembly, JavaScript

**Tools:** Selenium, SQL, Git, MongoDB, OpenShift, Docker, Kubernetes, Flutter, Jenkins, Elastic Search, Apache Spark, Postgres

**Methodologies:** Scrum, Agile Development | **Certifications:** CompTIA A+ ce Certification (Issued Jun 2020)