

Kunal Krishna

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PROFESSIONAL SUMMARY

Master of Computer Science candidate at UNC-Chapel Hill with **full-stack development** experience, specializing in backend systems. Proficient in building and optimizing scalable applications using Java, Spring Boot, and AWS. Seeking a full-time **Java Software Developer** role to apply expertise in REST API design, serverless architecture, and full-stack integration to create high-impact software solutions.

EDUCATION

The University of North Carolina, Chapel Hill

May 2026

Master of Science (M.S.) in Computer Science

Relevant Courses: NLP, Deep Learning, Software Engineering Lab, Formal Methods for Sys Security

PROFESSIONAL EXPERIENCE

SDE-1 at Redyhire (Bangalore, IND)

Jan 2023 - Feb 2024

- Key responsibilities: backend development, REST API design, & implementation.
- Engineered a YAML-based Question Uploader module, boosting content update efficiency by over 70% through optimized database population and selective update logic.
- Architected a serverless backend by implementing Java-based AWS Lambda functions with API Gateway, creating a scalable and efficient solution for request handling.

Junior Associate, Technology at Nagarro Software Pvt. Ltd., Gurugram, IND

Sept 2014 – Mar 2016

- Improved the retry logic for wallet integration, increasing withdraw and deposit API success by 20%.
- Built e-retail websites for clients using the Hybris framework.

PROJECTS

MatchWise : Intelligent & stable TA/RA allocation system for students & professors

Dec 2024

- Requirements Elicitation, Algorithm Design and Coding
- Built an algorithm matching students to professors for TA/RA positions by preference.
- Achieved fully stable matches in all test runs, reducing manual matching time by 90%.
- Technology: Python (PuLP library), Firebase (Authentication, Firestore, Cloud Functions), Flutter

SmartEventSync : AI-Powered Personal Event Aggregator (Ongoing Project)

Mar 2025

- Developing a smart assistant to unify events from multiple sources(gmail, outlook) on one dashboard.
- Aims to reduce manual event tracking effort by over 80% through intelligent automation and filtering.

SKILLS

Languages: Java (8/11/17+), Python, SQL, JavaScript

Backend & Frameworks: Spring Boot (MVC, JPA, Security, AI), Hibernate / ORM, REST APIs, Node.js, J2EE

Cloud (AWS) & DevOps: AWS (Lambda, API Gateway, EC2, S3, IAM), Docker, Kubernetes, CI/CD, Git

Generative AI: RAG Architecture, LLM Integration, Vector Databases (Pinecone), Prompt Engineering

Databases: MySQL, MongoDB, DynamoDB, Pinecone

Frontend: React.js, Angular, HTML5 & CSS3, JSON/XML