

# Rohit Dham

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## EDUCATION

**University of Minnesota, Twin Cities** | Bachelor of Science in Computer Science, Minor in Management

Expected May 2026

- **Relevant Coursework:** Computative Linear Algebra, Data Structures and Algorithms, Machine Architecture, Program Design & Development, Software Engineering, Operating Systems, Machine Learning Fundamentals

## PERSONAL PROJECTS

**SkillTap** | *React.js, Bootstrap, Gradle, Springboot, Java, MongoDB, AWS S3, AWS EC2* November 2024 - January 2025

- Designed and developed a Job Recommender App enabling CS/Data Science students to upload resumes and receive tailored job recommendations via a **Tinder-style UI client** built with **React.js** and **Bootstrap**.
- Developed a **REST API backend server** using **Gradle**, **Spring Boot**, and **MongoDB** to handle external **API calls from Adzuna**, manage user accounts, and handle **CRUD operations** for saved job recommendations.
- Engineered a custom resume parser using **Apache Tika** to extract skills from resumes, comparing them with a **CSV** of technology-related skills to enhance job-matching accuracy. **Refactored** this resume parser and improved efficiency by nearly **80%**
- Wrote test cases with **JUnit** to ensure reliability and achieve code coverage of **90%** using **JaCoCo**.

**CineMood** | *HTML, CSS, Javascript, Python, Flask, Sci-Kit Learn, Docker, Render*

May 2024 - June 2024

- Developed a **Machine Learning-powered Full-Stack application** that recommends movies based on the user's current location, weather, and time of day, while displaying real-time weather updates
- Implemented a **Multi-Label Random Forest Classifier**, achieving a high **F1 score** of **0.9833** and a low loss of **0.0104**
- [Deployed to the web using Docker and Render](#)

**Smart Budget Tracker** | *React.js, .NET Core, C#, SQL*

October 2024 -January 2025

- Developed a finance management **web app** with features like setting budgets, tracking income/expenses, and visualizing spending trends using **C# .NET Core, React, and SQL**.
- Integrated **OpenAI API** for automatic transaction categorization and real-time overspending alerts.
- Enabled users to manage finances through customizable budget categories, recurring expense tracking, and data export options (**CSV, PDF, JSON**). Utilized **Chart.js** for data visualization, and **ASP.NET Core** for backend services.

**Neuro** | *Python, PyTorch*

June 2024 - July 2024

- Developed an **AI chatbot** utilizing **PyTorch-based neural networks** and **natural language processing (NLP)** to perform math problem-solving, weather, stock trend checking via **API**, and playing games.

## EXPERIENCE

### Outlier

AI Trainer / AI Evaluator

July 2024 - Present

- Reviewed and crafted prompts for **AI chatbots** and **large language models (LLMs)**, enhancing their performance and accuracy through iterative feedback and analysis
- Trained **AI chatbots** to debug and generate code in **Python, Java, C, C++, and JavaScript**, optimizing their problem-solving capabilities for technical tasks

### Brooks Brothers

April 2023 - August 2024

Sales Associate

- Managed clothing stock, including tracking inventory levels and replenishing items as needed
- Updated and maintained a **database** for profits and stock using **Microsoft Excel**, ensuring accurate financial records and inventory management.

## SKILLS

**Languages/Databases:** Python, Java, JavaScript, TypeScript, C, C++, C#, SQL, MongoDB, HTML, CSS, JSON

**Frameworks/Libraries:** PyTorch, Sci-Kit Learn, NumPy, Pandas, Matplotlib, Flask, React, Node, Springboot, .NET, JUnit

**Tools:** Git/Github, Docker, Gradle, Make, Kubernetes, AWS, Heroku, Microsoft Office, Google Workspace, VSCode, IntelliJ