

Kishan Rajdev

Full-Stack Engineer

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Technical Skills

- ▶ **Languages:** Python, Javascript, Typescript, Java
- ▶ **AI/Machine Learning:** PyTorch, Torchvision, NumPy, Pandas, Scikit-learn, Matplotlib
- ▶ **Frontend Technologies:** React, Redux, Sass, CSS, Storybook, Angular
- ▶ **Backend Technologies:** Node.js (Express.js, Nest), Java (Spring Boot), RabbitMQ, SQS
- ▶ **Databases:** MySQL, MongoDB, Redis
- ▶ **Testing Technologies:** Mocha, Chai, Jest, Enzyme, WebdriverIO, JUnit, Mockito, Jmeter
- ▶ **DevOps:** Docker, Kubernetes, Jenkins, GitOps
- ▶ **Cloud services:** Azure, Google Cloud, AWS

Education

Master's in Computer Science (AI), 2025 (Pursuing) - 4.0 GPA
Troy University, Alabama, USA

Research Experience

Ensemble Methods for Uncertainty Quantification in Image Classification

- ▶ Conducted a comprehensive empirical study of multiple non-Bayesian ensemble approaches using PyTorch and ResNet-20.
- ▶ Evaluated the performance of ensemble models on in-distribution (ID) accuracy and calibration, robustness under covariate shift, and out-of-distribution (OOD) detection.
- ▶ Submitted to CVPR 2026 (under review).

Diversity-Enhanced Snapshot Ensembles

- ▶ Introduced DESE, a lightweight extension of Snapshot Ensembles that enhances robustness by selecting only snapshots that are meaningfully diverse in parameter space using cosine similarity and in prediction space using prediction disagreement on a validation set.
- ▶ Submitted to ACMSE 2026 (under review).

Uncertainty-Aware Skin Cancer Classification with Deep Ensembles

- ▶ Evaluated deep ensembles for seven-class skin lesion classification using the ISIC dataset, demonstrating improved accuracy and uncertainty estimation for the risk-sensitive medical application.
- ▶ Submitted to ACMSE 2026 (Poster paper, under review).

Adaptive Coverage Planning Under Uncertainty in Autonomous Cleaning Robots

- ▶ Built a POMDP based planning framework for autonomous cleaning robots operating under partial observability.
- ▶ Submitted to CVPR 2026 (under review).

Show Me the Money: Factors Contributing College Football NIL Valuations

- ▶ Co-authored this study with the Sports Management faculty of Troy University.
- ▶ Performed data processing and ANCOVA to analyze factors affecting NIL valuation.
- ▶ Submitted to the Journal of Sports Economics (under review)

Secure Standard-Based Approach to Cloud Interoperability in E-Government

- ▶ Co-authored this research aimed at strengthening cloud interoperability for e-government systems by adopting a multi-cloud architecture to avoid vendor lock-in.
- ▶ Conducted Azure–AWS interoperability experiments and contributed to writing results.
- ▶ Accepted at CloudTech'25.

Industry Experience

SIEMENS LTD — ADVANCED SOFTWARE ENGINEER

SEP 2022 – JAN 2025

- ▶ Worked on the development of the Additive Manufacturing Network, an online order-to-delivery collaboration platform for the industrial additive manufacturing community.
- ▶ Wrote and maintained 80%+ unit test code coverage across services.
- ▶ Conducted code reviews.
- ▶ Integrated SonarQube and defined Quality Gates for static code analysis.
- ▶ Worked on the cloud services usage analysis and optimisation, resulting in ~40% reduction in billing
- ▶ *Tech Stack: Node.js, Typescript, React, Angular, Java (Spring boot), Jest, AWS*

J. P. MORGAN CHASE — FULL STACK ENGINEER

DEC 2021 – AUG 2022

- ▶ My role involved developing and maintaining plugins for JPMC's Aurora platform.
- ▶ *Tech stack: Typescript, Angular, Node.js(Nest), Postgresql*

M&G PLC — FULL STACK ENGINEER

APR 2019 – NOV 2021

- ▶ Worked on the development of M&G's customer portal, myaccount.mandg.com which provides users with a platform to manage their investment portfolios.
- ▶ Followed TDD and maintained code coverage > 80%.
- ▶ Created reusable components.

Tech stack: Typescript, React, Redux, Storybook, Jest, Enzyme, Java (Spring Boot), Node.js

ZENSAR TECHNOLOGIES — SOFTWARE ENGINEER

MAY 2017 – MAR 2019

- ▶ Worked on the development of an e-commerce website of Woolworths ([woolworths.co.za](https://www.woolworths.co.za)).
- ▶ *Tech stack: React, Redux, Grunt, Knockout, Oracle ATG, Node.js, Express.*

WINGIFY PVT LTD — SOFTWARE ENGINEER

DEC 2015 – MAY 2017

- ▶ Contributed to the development Pushcrew (by VWO), a SaaS push notification product.
- ▶ *Tech stack used: React, Node.js, Webdriver.io, Wit.ai*

PEPPERFRY.COM — SOFTWARE ENGINEER

JAN 2015 – DEC 2015

- ▶ Pepperfry is an Indian online marketplace for furniture and home decor. Contributed to the development of their web application and REST APIs for a mobile application.

Personal Projects

ROOSTER (CHROME WEB STORE)

Rooster is a Chrome Extension that helps you enhance productivity by providing insights into your browsing habits and alerting you when you get distracted. With over 2,000 downloads on the Chrome Web Store, Rooster helps users stay focused and manage their time effectively.