

# Nikita Jare

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## SUMMARY

Highly motivated and results-oriented Software Engineer with a passion for building high-performance, scalable systems. Proven ability to collaborate effectively in fast-paced environments, contribute to all stages of the software development lifecycle, and deliver impactful solutions using cutting-edge technologies

## EXPERIENCE

**Software Engineer** | *React, React-Native, Node.js, MongoDB, Redux, Redis* Jun 2023 - Present  
*Network Tree* Remote, USA

- Built a responsive relationship management platform with 50+ **APIs serving live traffic**, enhancing user engagement
- Integrated Auth0 **authentication API**, AWS **Secrets Manager** and SNS messaging, Stripe **payments API** into the application, containerized using **Docker** and reduced customer churn by 20% using **RUM monitoring** tools
- Implemented **CICD pipeline** on AWS ECS clusters automating deployments & reducing manual effort

**Software Engineer** | *Python, React-Native, TypeScript, MySQL, Redux, Redis* Jan 2024 - May 2024  
*Department of Environmental Health Sciences at Columbia University* New York, USA

- Developed a high-performance **mobile application used by 5,000 users** to scan products and collect carbon footprint data, raising awareness. Integrated **CO2e emissions APIs**, **caching strategies** improving data accuracy by 40%
- Designed and implemented a scalable cloud infrastructure (AWS) to ensure optimal app performance under high load

**Software Engineer** | *Python, Advanced SQL, Flask, Machine Learning* Jul 2019 - Dec 2022  
*Barclays* Pune, India

- Improved **real-time and batch transaction processing efficiencies** of Euro-denominated payment processing (SEPA) by 20% through efficient ETL design using Apache Kafka, Shell Scripts, SQL, and AbInitio, enabling swift handling of transactions
- Built a **Python utility in Flask with RDS DB**, to enhance code quality, ensure robustness, minimize errors, and boost developer productivity to address a gap in the AbInitio tool's ecosystem
- Streamlined code deployments and reduced time-to-production by 30% through automated pipelines, eliminating manual intervention and ensuring error-free deployment
- Won 'Barclays India Hackathon' by creating a **full-stack application with a 98% accurate XGBoost ML model** for detecting fraudulent accounts. Leveraged **Python, Scikit-learn, and AWS EC2** for training and deployment
- Designed and developed a **React application** that provides financial insights into spending patterns of customers and helped improve financial literacy and spending patterns of over 2 million customers

**Software Engineer Intern** | *Python, Django* Sep 2018 - Apr 2019  
*TIBCO Software* Pune, India

- Developed a full stack application and deployed an **anomaly detection model** for a rule-based performance monitoring tool (TIBCO HAWK) and achieved a significant accuracy of 78% despite data quality challenges
- Integrated combination of **DBSCAN, MAD, and Convolution Neural Network** algorithms to enable dynamic anomaly detection compared to the previous static approach

## SKILLS

- **Programming Lang:** Python, JavaScript, TypeScript, Node.js, SQL, MongoDB, Go, C++, C,
- **Frameworks, Tools and OS:** React Native, React, Django, Flask, Next.js, Git, Docker, Kubernetes, AWS, Unix
- **Data Science:** Machine Learning (XGBoost, Random Forest, Neural Networks, Scikit-learn), Deep Learning (TensorFlow, PyTorch), Natural Language Processing (CNNs)

## EDUCATION

**Columbia University**, Master of Science in Computer Science New York, NY, USA

**University of Pune**, Bachelor of Engineering in Information Technology Pune, MH, INDIA  
**Coursework:** *Operating Systems, Object Oriented Programming, Data Structures and Algorithms, Distributed Computing Systems, Analysis of Algorithms, Neural Networks and Deep Learning, Natural Language Processing, Machine Learning*

## PROJECTS AND OPEN SOURCE

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### **Vercel-Backend** | *AWS S3, Typescript, Node.js, React, Redis*

- Implemented vercel's basic backend architecture for React projects i.e Upload, Deployment and Request Handling to run the project when requested. Repo Link: <https://github.com/nikita-jare/vercel>

### **Multiplayer Chess Game** | *WebSockets, TypeScript, Node.js, React, Turborepo, Prisma*

- Multiplayer chess platform - implemented communicating moves between users using websockets, handling the game status on the backend database, timer etc. Repo Link: <https://github.com/nikita-jare/chess-game>

### **Open Source Contribution: Volunteer Developer - Machine Learning, Ivy** | *Python, Paddle, Tensorflow*

- Added new Paddle methods and architectures and resolved [10 reported issues](#) within Ivy's open source repository

### **Machine Reading of Customer Feedbacks** | *CNN, Django, Python*

- Analyzed passenger feedbacks to classify into categories by implementing a Convolution Neural Network for text classification with 70% accuracy. Repo Link: <https://github.com/nikita-jare/sentence-classifier-with-CNN>