

Jaidev Ramakrishna

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Professional Experience

Ladders **Software Engineer III** **Sep 2022 – Present**

- Designed and implemented back-end features in the core Recruiting Platform that allow companies to efficiently identify and connect to suitable candidates, and streamline the hiring and onboarding process.
- Built internal tools and services to improve the workflow of the Quality Assurance and Customer Support teams and increase operational efficiency by speeding up the rollout of new features, fixes, and updates.
- Worked with the Product and UI/UX Teams, Corporate Partners, and other stakeholders on engineering, testing, and deployment of customer-facing services. Collaborated with them on future release planning.

Net Nanny **Senior Software Engineer** **Jan 2018 – Sep 2022**

- Architected and developed components of an Activity Recognition and Behavior Monitoring system. Created mobile applications for Usage Reporting, Location Tracking, and Remote Device Administration.
- Applied Network Forensics and Cryptanalysis to network packets for payload extraction and metadata analysis. Used Natural Language Processing and Machine Learning to categorize and block web content.
- Built libraries to enable low-level access to platform hardware features and optimize performance of resource-intensive tasks using Approximation Algorithms, Computing Theory, and Parallel Programming.

Drexel University **Machine Learning Researcher** **Jan 2016 – Jan 2018**

- Researched topics at the intersection of Electronic Privacy and AI, focusing on Stylometry and its use in Deanonymizing Attacks. Helped build a system to detect mental health issues using text on social media.
- As a Graduate Teaching Assistant, conducted teaching and practicum sessions for hundreds of students across several CS courses. Produced automation scripts for assignment grading and plagiarism detection.

Software Engineering Skills

Languages & Utilities Java, C++, C#, Python, Swift, Clojure, Kotlin, Android SDK, JNI, NDK, Gradle

Operating Systems & Platforms Windows, Linux, Android, MacOS, iOS, Git, AWS, FireBase, Jenkins, Docker

Academic Qualifications

Drexel University **Masters in Computer Science** **Sep 2015 – Jun 2017**

- **EDSAC Simulator** – Built a simulation of the EDSAC Computer and designed a high-level language to control it. Created an interactive shell interpreter with memory maps, debugging, logging, and scripting.
- **Sensor Mesh Protocol** – Designed a lightweight, application-agnostic, plane-separated, UDP-based transport protocol for reliable streaming of Sensor data on heterogenous publisher/subscriber networks.
- **Temporal Expression Extraction** – Researched applications of Conditional Random Fields to the Named Entity Recognition problem. Built a system to identify temporal expressions and their associated entities.

Mumbai University **Bachelors in Computer Engineering** **Aug 2009 – Jun 2015**

- **Enhanced FishEye Routing** – Routing protocol for mesh networks that dynamically maintains backbone links by electing gateway nodes for partitioned grids, and algorithmically varies LSP transmission interval.