

HARSHAVARDHAN PRATAPRAO KALE

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Experience

Pine Labs

Jan 2026 – Present

Software Development Intern

Pune, India

- Contributing to backend development for fintech payment infrastructure using Java and scalable backend systems
- Working on database management and API design for high-throughput payment processing services
- Technologies:** Java, Backend Systems, Database Management

Schaeffler Technology Solutions

Jun 2025 – Aug 2025

Product Development Intern

Pune, India

- Automated Windows server provisioning using PowerShell scripts, reducing deployment time by **90%** (2 days to 4 hours) and eliminating **40%** of configuration errors across 4+ production servers
- Technologies:** PowerShell, Windows Server, IIS, Confluence

Mirai – BuildUp Global

May 2025 – Sep 2025

Lead Developer Intern

Remote

- Led 4-member team to build full-stack career guidance platform serving **2,200+ students** with 35% engagement increase through AI-driven recommendations
- Technologies:** MongoDB, Express.js, React.js, Node.js, Redis, GCP

Projects

Credit+: AI Credit Orchestration Suite | AWS Bedrock, Node.js, DynamoDB, Docker

Nov 2025 – Jan 2026

- RAG + Agentic AI on AWS Bedrock across 28 credit policies delivering **sub-5s** loan decisions with RBI compliance-override safety and full Rule ID auditability
- Real-time rule sync pipeline (Python Lambda + DynamoDB + S3) pushing updates to live AI agent in **60–90s**; admin portal deployed on Elastic Beanstalk with Docker

Database Engine | C++, B-Tree, WAL, MVCC

Aug 2025 – Sep 2025

- Built SQL-compatible relational DB engine with B-tree indexing, write-ahead logging for crash recovery, and full ACID transaction support
- Implemented MVCC supporting **100+ simultaneous connections**; achieved **3x faster** crash recovery and **40% faster** query execution via index selection algorithms

Himayat – Workforce Hiring Platform | React Native, Firebase, MongoDB, Google Maps API

Jan 2025 – Mar 2025

- Geolocation-based service marketplace connecting domestic workers with employers, designed for **50,000+ users** with real-time discovery within 5km radius
- Built Cloudinary media storage handling **10,000+ images** with automatic compression reducing bandwidth by 70%

COEP-Connect – College Social Network | Python, Flask, MongoDB, WebSockets

Jan 2024 – Apr 2024

- Flask-based social platform for **500+ college students** with anonymous/public posting, polls, real-time notifications, and intelligent interest-based student matching
- Built intelligent "Connect to People" recommendation system matching students based on shared interests, clubs, sports, and academic needs using custom algorithm

Technical Skills

Languages: C++, Java, Python, JavaScript, SQL, HTML/CSS

Frameworks & Libraries: React.js, Node.js, Express.js, Flask, Flutter, Scikit-learn

Databases: MongoDB, MySQL, PostgreSQL, Firebase, Redis

Developer Tools: Git, Docker, Postman, PowerShell, Vercel, GCP, GitHub Actions

Core Competencies: Data Structures & Algorithms, System Design, RESTful APIs, OOP, Cloud Computing

Competitive Programming

LeetCode: 756+ problems | Contest Rating: 1682 | Top 14.4% globally | 250+ day streak

GeeksforGeeks: 200+ problems | Contest Rating: 1587 | Institute Rank: Top 5%

Education

COEP Technological University

Pune, India

Bachelor of Technology in Computer Engineering

Nov 2022 – Jun 2026

Samarth Madhyamik va Uchhamadhyamik Vidyalay

Karjat, India

Higher Secondary Certificate (HSC) – 94.83% | MHT-CET: 99.81 Percentile

Jun 2020 – Dec 2021