

Upanshu Chaudhary

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Technical Skills

Languages: Java, C++, Python, Shell, HTML/CSS

Frameworks/Platforms: Springboot, React.js, Kafka, RabbitMq, JIRA, IntelliJ

Database: MongoDB, Postgres

Test: JUnit, Mockito, Powermock, Spring Test, Postman, Hoppscoth

DevOps: Concourse CI, GitHub Actions, HashiCorp Vault, terraform, Docker, Jenkins, Git, Github, Bitbucket

OS: Linux, Unix, Windows

Relevant Skills: Object-oriented/Functional programming, Data structures, Design principles, TDD, CI/CD, Scrum, Agile

Work Experience

Graduate Teaching Assistant: *Oregon State University*

(September 2022 - present)

- Teaching assistant for Software Engineering and Programming language fundamentals.
- Assisted Professor by Proctoring Final exams, Conducting Weekly office hours, and resolving student queries.
- Grading assignments and homework for 70+ students, and Providing actionable Feedback.

Software Engineer: *Knoldus Inc*

(January 2020 - August 2022)

Project: United Kronos Group: Notifications Platform with 2Way sms, Email, Slack Integration

- Followed Scrum ceremonies and Kanban process for product delivery. Used JIRA to track sprint tickets.
 - **Interfaced with cross-functional teams** of product owners, QAs, developers, DevOps, and sales to understand requirements. Demonstrated **strong communication and Collaborative skills** in doing so.
 - Developed 3 fault-tolerant, **scalable pub-sub microservice in Java, and Springboot to consume**, store, and process events from various sources, including Kinesis data stream, Mailgun, and 2-way SMS events from AWS Pinpoint.
 - Performed CRUD operations on the MongoDB database to form new events from the data ingested from the Kinesis data stream.
 - Wrote **script and SQL queries** to update the Postgres database with new deployment configuration for multiple microservices.
 - Wrote and Maintained: Unit, Integration Tests, and Performance Scalability Reliability Tests with **>85%** code coverage.
 - Led POC and development of **AWS mock solutions** for load testing environment **reducing the resource cost by 15%**.
 - Troubleshooting and resolving bugs in microservices.
 - Developed **REST** microservice with OAuth2 protocol for processing and publishing events to Kafka and RabbitMQ.
 - Collaborated with clients to **create AWS infrastructure** for dev and prod environments.
 - Wrote docker files to dockerize microservices for deployment in the development and production environment.
 - Wrote CI pipelines for PR checks, testing, and SonarQube integration for development and production environments.
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Projects

Cowin Vaccination Tracker: Java, Springboot, Python, Mailgun

- Developed Java spring boot application for polling vaccination slots from Cowin API
- Integrated Mailgun email API to send email alerts to the user on slot availability.

Reactor Monitoring Dashboard: Python, Flask, Plotly, Postgres

- Developed microservice in Python and Flask that consumes data from Postgres.
- Created UI for plotting temperature and pressure values using Plotly with the refresh feature.

YogaAI: Flutter, Dart, Python

- Undergrad final year project focused on leveraging trained models and detecting users' real-time yoga poses.
 - Integrated the model in the Flutter application, and developed UI.
 - Integrated Voice assistant to convey accuracy to users and report generation providing residual errors.
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Education

Oregon State University, Corvallis, USA

(September 2022 - June 2024)

MS, Computer Science

GPA: 4.0

- **Completed Courses:** Software Engineering Methods, Human-computer Interaction, Database management systems, Parallel Programming.

Amity University, Noida, India

(July 2016 - January 2020)

BS, Computer Science, and Engineering

Notable Contributions

- Guest Writer at Digital Asset: [Lending and Credit Management using Smart Contracts](#).
- Presented webinars and virtual knowledge sessions on Blockchain and microservice development.
- Tech blogs with over 200+ thousand views on DZone and Medium.
- Open-source contribution to local stack Java library to add Dynamo Async Support.