

# Aayush Pandey

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## Objective

Motivated and proficient Java and Flutter developer with experience in creating efficient, user-friendly, and high-performance applications. Adept at working in agile environments, with a strong foundation in object-oriented programming and a passion for mobile and web development. Looking to leverage my expertise in a forward-thinking company to deliver cutting-edge solutions, contribute to team goals, and advance my career in software development.

## Education

### Bachelors in Computer Application

**2022 - 2026**

*Divya Gyan College*

*Kathmandu*

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**2020-2022**

*Uniglobe Higher Secondary School*

*Kathmandu*

### Secondary Education Examination

**2019-2020**

*Graded English Medium School*

*Kathmandu*

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## Professional Experience

### Java Developer

**2022 - 2023**

*Inventors Academy*

*Kathmandu*

- Assisted in the development and maintenance of Java-based applications, contributing to multiple phases of the software development lifecycle.
  - Leveraging my Java programming skills, I played a pivotal role in coding and debugging various modules, ensuring that the software met the company's quality standards and adhered to best practices.
  - Collaborated with senior developers to design and implement new features, ensuring code quality and performance optimization.
  - Participated in code reviews, identifying bugs and suggesting improvements to enhance application functionality and efficiency.
  - Developed and executed unit tests to ensure the robustness and reliability of the software.
  - Utilized version control systems like Git to manage codebase and track project progress effectively.
  - Engaged in daily stand-up meetings and sprint planning sessions, working within an Agile development environment.
  - Conducted research on new technologies and frameworks to recommend and integrate innovative solutions into ongoing projects.
  - Provided support in debugging and troubleshooting issues reported by users, contributing to the overall stability of the applications.
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## Personal Skills

- Proficient in Java development, with hands-on experience in building, scalable and robust applications.
- Skilled in Flutter framework, with a strong ability to develop cross-platform mobile applications for both iOS and Android.
- Experienced in object-oriented programming (OOP) principles, design patterns, and data structures, ensuring efficient and maintainable code.
- Adept at using Java frameworks and libraries such as Spring, Hibernate, and Apache Maven to enhance application performance and manage dependencies.
- Competent in Flutter's widget-based architecture, state management (Provider, Bloc), and custom UI component creation for responsive and interactive mobile interfaces.
- Utilized RESTful APIs and JSON to integrate backend services with Java and Flutter applications, ensuring seamless data exchange and application functionality.

- Implemented unit and integration testing in both Java (JUnit, Mockito) and Flutter (Flutter Test, Mockito) to ensure software quality and reliability.
  - Proficient in using version control systems like Git for source code management and collaboration in team-based projects.
  - Familiar with Agile methodologies and practices, including Scrum, for efficient project management and iterative software development.
  - Experienced in debugging and optimizing application performance using tools like Android Studio, Xcode, and various profiling tools.
  - Engaged in continuous learning and professional development to stay updated with the latest trends and advancements in Java and Flutter technologies.
  - Designed and implemented robust and efficient back-end services and microservices using Java, ensuring scalability and high performance.
  - Leveraged Dart language features to create clean and maintainable code in Flutter, improving development efficiency and application performance.
  - Integrated third-party libraries and SDKs into Flutter applications to enhance features such as authentication, payment processing, and analytics.
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## Projects

### Backend System for a Stock Company

- Designed and developed a scalable and high-performance backend system for a stock company using Java, ensuring robust data processing and real-time analytics.
- Implemented RESTful APIs to provide secure and efficient communication between the backend system and various client applications, including mobile and web platforms.
- Utilized Spring Boot framework to streamline application development, manage dependencies, and enhance application security and performance.
- Developed complex algorithms for stock price analysis, portfolio management, and risk assessment to support informed decision-making by users.
- Implemented robust authentication and authorization mechanisms using Spring Security to protect sensitive financial data and user information.
- Utilized SQL databases (e.g., MySQL, PostgreSQL) for structured data storage and NoSQL databases (e.g., MongoDB) for unstructured data, ensuring efficient data retrieval and storage.

- Conducted extensive unit testing and integration testing using JUnit and Mockito to ensure the reliability and correctness of the backend system.
  - Implemented data caching strategies using Redis to enhance performance and reduce the load on the primary database during peak usage times.
  - Monitored and optimized system performance using profiling tools and logging frameworks (e.g., Log4j, SLF4J), ensuring high availability and quick issue resolution.
  - Collaborated with front-end developers and business analysts to gather requirements, design solutions, and ensure seamless integration between the backend system and user interfaces.
  - Engaged in Agile development practices, participating in sprint planning, daily stand-ups, and retrospective meetings to ensure continuous improvement and timely delivery of features.
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## Language

- English – Full Professional Proficiency
  - Nepali – Native or Bilingual Proficiency
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## Interests

- Mobile app development
- Backend System Development
- Continuous learning and professional development