

APRESH AGARWAL

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MASTER OF COMPUTER SCIENCE

Results-driven Software Engineer with 4+ years of experience building high-performance web applications, APIs, and cloud-based systems. Skilled in backend architecture, database optimization, and full-stack development using Java Spring Boot, ASP.NET, PHP, JavaScript, and SQL. Adept at collaborating across Product, QA, and DevOps teams to deliver secure, scalable, and maintainable software in fast-paced Agile environments. Holds an M.S. in Computer Science and thrives in high-impact engineering teams.

TECHNICAL SKILLS

- **Languages & Databases:** Java, Python, C++, C#, JavaScript, SQL, PHP, HTML/CSS, Bash, MySQL, PostgreSQL, MongoDB, Redis
- **Frameworks & Platforms:** Spring Boot, ASP.NET, Django, CodeIgniter, Bootstrap, AJAX, AWS Lambda, Amazon Alexa Skills
- **Cloud & DevOps:** AWS, GCP, Docker, Kubernetes, Jenkins, GitLab CI/CD, Maven, Gradle, Git, Ansible, SonarQube
- **Testing & Automation:** JUnit, Mockito, Appium, WinAppDriver

PROFESSIONAL EXPERIENCE

Software Engineer II at Morgan Stanley, Mumbai, India

05/2021 – 08/2023

- Developed and optimized RESTful APIs using Java/Spring Boot, driving critical fintech services across multiple platforms.
- Revamped legacy infrastructure by migrating SOAP services to REST, improving API throughput and reducing latency by 40%.
- Strengthened security posture across 8 applications, mitigating critical vulnerabilities and achieving compliance standards.
- Automated 30+ QA test cases in Python, cutting manual testing by 90% and reducing regression errors in production.
- Enhanced CI/CD pipelines with Jenkins and Git, reducing deployment time by 25% and lowering production defects by 60%.
- Performed production incident triage and contributed to on-call rotation support, ensuring 99.9% uptime across key financial systems.
- Authored and maintained API documentation via Swagger, improving cross-team communication.
- Collaborated with Product Owners, SMEs, and cross-functional Agile teams in regular Scrum ceremonies to deliver high-quality releases.
- Partnered with Product and QA teams to deliver fully tested, documented, and production-ready releases on time.
- Mentored junior developers and participated in hiring processes, accelerating onboarding and productivity.

Software Engineering Intern at mthree (formerly Wiley Edge), Noida, India

01/2021 – 05/2021

- Completed full-stack training focused on Java, Spring Boot, RESTful APIs, and SQL in a high-intensity engineering cohort.
- Developed backend modules and business logic for scalable finance applications with real-world transactional data.
- Designed and integrated REST APIs with relational databases, achieving a 30% improvement in query performance.
- Practiced Agile delivery through sprints, stand-ups, and code reviews, ensuring timely and maintainable releases.
- Built unit/integration tests using JUnit and Mockito, raising test coverage and code reliability.
- Deployed Dockerized applications via CI/CD pipelines on Jenkins, gaining hands-on experience in DevOps workflows.
- Ranked in the top 5% of cohort; awarded "Wiley Certified Full Stack Developer" for technical excellence.

Software Engineering Intern (Co-Op) at PrismCode Info Solutions Pvt Ltd, Gurugram, India

08/2019 – 08/2020

- Delivered full-stack features across Android, web, and backend services for startup clients in a fast-paced <10-member team.
- Built user-facing apps in Java, PHP, JavaScript, and MySQL, including real-time sync, payment, and authentication modules.
- Translated client requirements into agile deliverables, collaborating with designers to iterate rapidly on MVP features.

ADDITIONAL EXPERIENCE

Research Assistant at California State University, Chico, CA

08/2025 – Present

- Designing and developing a frontend interface for a decentralized, multi-agent chess simulation platform as part of an AI research project.
- Collaborating with faculty and peers to integrate reinforcement learning experiments and visualize agent decision processes in real time.

IT Support Technician (Student Assistant) at California State University, Chico, CA

10/2023 – 09/2024

- Provided Tier-1/Tier-2 tech support and maintained the university's EHR system (Point and Click), ensuring reliability across departments.
- Authored internal guides and streamlined documentation processes, reducing recurring support tickets by 40%.
- Collaborated with clinical and IT teams to troubleshoot data access, user permissions, and integration issues between EHR and reporting tools.

EDUCATION

Master of Science, Computer Science, California State University, Chico, CA

08/2023 - 05/2025

Bachelor of Technology, Computer Science & Engineering, Amity University, India

08/2017 - 05/2021

PROJECT EXPERIENCE

- Wildcat Hiking Club Website – Built a PHP/CodeIgniter hub for 200+ hikers with Alexa integration, boosting engagement by 50%.
- AR-CASA – Created a Unity-based AR app for immersive 3D real estate tours, improving buyer engagement by 60%.
- SIGNet – Developed a serverless ASL interpreter using CNNs (95% accuracy) on AWS Lambda for scalable deep learning inference.

CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals
- Microsoft Certified: Azure AI Fundamentals
- Microsoft Certified: Azure Data Fundamentals
- Wiley Certified Full Stack Developer