Rupali Gupta

Software Engineer · Solution Engineer · Backend Engineer
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SUMMARY

Experienced technology professional with over 6 years of expertise in software engineering, solution design, and technical program management. Demonstrated ability to build scalable backend systems and drive cross-functional collaboration to ensure technology solutions effectively support business objectives. **Authorized to work in the USA without sponsorship.**

SKILLS

Programming Languages & Technologies: Python, C#, SQL, AWS (S3, Glue, RDS), PostgreSQL, Git, Bitbucket, Docker
Methodologies: REST API Design, Cloud Architecture, Software Development, Database Management, Agile Methodologies

EDUCATION

Master of Science (M.S.) in Computer Science | Multimedia
University of Alberta, Edmonton, Alberta, Canada, *2018 – 2020* | GPA: 4.0/4.0

Bachelor of Engineering (B.E.) in Computer Science & Engineering
Dr. A.P.J. Abdul Kalam Technical University, India, *2013 – 2017* | GPA: 3.6/4.0

EXPERIENCE

Software Engineer | Morningstar Canada | Toronto, Canada   April 2022 - May 2025
Global investment research firm, delivering data, tools, and expertise to investors.
- **API Design**: Built REST APIs in C# on AWS (EC2, RDS); added caching to improve response times by 40% and scale to 2x user load without additional compute resources.
- **SaaS Product Improvement & Collaboration:** Partnered with product managers and teams to enhance Morningstar Direct, a flagship SaaS product used by over 180,000 investment professionals. Delivered portfolio analytics features by incorporating user feedback, aligning with business goals, and boosting recurring revenue.
- **Database Optimization:** Optimized production-level PostgreSQL databases at scale, reducing query latency by 30% and ensuring data integrity through regular updates.
- **Agile Deployment:** Managed 10+ Agile sprints to launch new APIs, increasing team productivity by 20% and shortening release cycles.

Software Developer | PCL Industrial Management Inc. | Edmonton, Canad   April 2019 - January 2022
Leader in the construction and building industry, creating project management solutions for large-scale projects.
- **Custom Software Solutions:** Directed the development of Autodesk Navisworks plugins in C# to automate model analysis and clash detection, resulting in a 70% increase in productivity for construction project teams. Coordinated with technical and business teams to define product requirements.
- **Database Design:** Normalized SQL database schemas, reducing data redundancy by 60% and improving query performance by 45%.

Software Engineer | QA Infotech Pvt Ltd | Noida, India   June 2017 - July 2018
Specializes in software development and QA services, providing solutions for a variety of industries.
- **Performance Testing:** Led QA and performance testing using Jenkins and Scala scripts, increasing test coverage to over 500 critical scenarios and ensuring system stability for 100,000 concurrent users.
- **Requirements Gathering:** Worked with 10+ stakeholders to gather requirements, enabling 20% faster feature roll-outs with fewer post-release issues.

Research Fellow | Indian Institute of Technology (IIT) Delhi | Delhi, India   May 2016 – July 2016
India's premier institution for research and engineering innovation.
- **Android Security Research:** Analyzed 100+ Android apps' .apk file structures, identifying 12 permission-related security vulnerabilities, leading to a developer training module that enhanced security awareness.
- **Hands-On Experience:** Reverse-engineered 50+ Android applications using APKTool and JADX to improve detection of obfuscation, insecure data storage, and misconfigured permissions.

AWARDS AND SCHOLARSHIPS
- **AWS re:Invent All Builders Welcome Grant** – Full Scholarship to attend AWS Conference 2022.
- **Graduate Student Travel Scholarship** – FGSR, University of Alberta (5% selection rate).
- **Research Scholar** – Summer Research Scholarship Fellowship, IIT Delhi (Highly competitive, top 10% eligibility criteria).
- **Creative Head, Technovation –** Elected to lead creative direction and branding for the technical event organizing club.