

# BRIJ BHATIA

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## Technical Skills

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**Programming Languages:** Python, Java, JavaScript, TypeScript, C/C++, Groovy, HTML5, CSS3

**Technologies and Frameworks:** Django, Flask, Node, React, Angular, Express, Redux, Git, AWS, GCP, CI/CD, Numpy, Pandas, Seaborn, Selenium, Docker, Jenkins, Terraform, SAP

**Database Management:** MongoDB, MySQL, SQLite3, PostgreSQL

**Certifications:** Meta Back-End Developer Professional Certificate, AWS Certified Solutions Architect Associate

## Work Experience

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### HP

May 2023 – December 2023

*Product Test Automation Engineer, Co-op*

*Vancouver, Canada*

- Conducted comprehensive regression testing for HP Voice Products' OS builds, effectively identifying, documenting, and resolving software irregularities, which improved product quality and user satisfaction.
- Implemented test scripts using Selenium, Jenkins, and Robot Framework, reducing testing duration by 45%.
- Resolved over 100 software issues, boosting reliability, performance, and maintainability by 20%.
- Partnered with the development team to integrate test automation into the CI/CD pipeline, ensuring seamless and timely code deployments.
- Executed performance testing using JMeter to identify and address system bottlenecks, enhancing overall system performance.

### IBM

October 2019 – August 2022

*Systems Engineer*

*Bangalore, India*

- Developed custom security monitoring tools using Python and Java, enhancing the efficiency of SAP security processes and reducing the need for manual intervention by 35%.
- Built a web-based dashboard using React and Node.js to monitor and manage SAP security protocols, enhancing real-time data visibility and user experience.
- Optimized Oracle SQL queries and database schemas to improve data retrieval efficiency by 20%.
- Integrated third-party APIs with SAP systems for seamless data exchange, improving data consistency and reducing synchronization issues.
- Conducted code reviews and collaborated with cross-functional teams to ensure adherence to coding standards and best practices.
- Formulated and enforced security policies and procedures, enhancing overall system security and user access controls, resulting in a 40% reduction in security incidents.
- Authored detailed documentation for all security processes, improving knowledge transfer and reducing onboarding time by 30%.

### IBM

February 2019 – May 2019

*Software Engineer, Intern*

*Bangalore, India*

- Streamlined end-to-end service support processes using RPA, achieving a 40% workload reduction.
- Automated internal website functions with Java and Selenium, reducing manual testing efforts significantly.

## Projects

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### Project and Client Management System

- Developed a client and project tracking application using GraphQL, enabling efficient data querying and management.
- Designed an intuitive user interface with React, streamlining client interactions and improving overall user experience.

### Encrypted Secure FileSystem

- Constructed a secure host file system in C++, featuring encryption for multi-user access control and resource-efficient data storage.
- Delivered functionalities such as user-specific encryption keys, secure file sharing, and command-line operations, ensuring enhanced security within the file system.

### Serverless vs. Serverful Performance in Microservices

- Deployed PyTorch pre-trained YOLO V7 on AWS, utilizing both serverful and serverless for scalable application access.
- Managed EC2 and ECS with ALB auto-scaling for serverful solutions, and implemented serverless access through Lambda and API Gateway for efficiency.

### CIS Benchmarks Deployment for AWS

- Conducted assessments using AWS CIS Benchmarks for IAM, Logging, Monitoring, and Networking.
- Enhanced cybersecurity posture by remediating vulnerabilities and implementing 15 controls based on CIS AWS Foundations Benchmark v3.0.0 guidelines.

### Rent Tracking Application

- Engineered a full-stack web application to manage tenant information, rental payments, and maintenance requests.
- Utilized the redux pattern for frontend datastore and Firebase for authentication and role-based access control.

## Education

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### Simon Fraser University

*Master of Science in Professional Computer Science - Cybersecurity*

**September 2022 – April 2024**

*Burnaby, Canada*

### Nitte Meenakshi Institute of Technology

*Bachelor of Engineering - Computer Science and Engineering*

**August 2015 – August 2019**

*Bangalore, India*

## Achievements

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- Secured Second Runner-up at Canada's Cyber Security Challenge Regional Event.
- Directed the creation of an augmented reality project for education, awarded best among 65 entries by Nitte Meenakshi Institute of Technology in 2019.
- Programmed a complete game in a 24-hour Hackathon organized by Nitte Meenakshi Institute of Technology.