

PRANJAL CHAUHAN

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Summary

- **Versatile Programmer:** Strong foundation in multiple programming languages and practical experience with frameworks like MERN Stack, Java Spring Boot, and React Native for building dynamic web and mobile applications.
- **Cloud Computing:** Managed AWS resources and automated deployments with Terraform at Evertz Microsystems.
- **Networking and Automation:** Hands-on experience in managing network environments and developing automation scripts, with a keen interest in cybersecurity and system optimization.
- **Full-Stack Development:** Skilled in designing and implementing robust full-stack solutions, combining technical knowledge with a focus on performance and user experience.

Education

Sheridan College

Jan. 2023 – Dec. 2025

Software Development and Network Engineering (CGPA: 3.83)

Brampton, Ontario

Relevant Coursework

- | | | | |
|------------------------|-----------------------|---------------------------|-------------------------|
| • Data Structures | • Algorithms Analysis | • Artificial Intelligence | • Systems Programming |
| • Software Methodology | • Database Management | • Internet Technology | • Computer Architecture |

Experience

Evertz Microsystems

May 2025 – August 2025

Product Verification Specialist

Burlington, Ontario

- Automated deployment and configuration of cloud servers using Terraform and Python, leveraging multithreading to provision multiple instances in parallel.
- Tested video compression systems transmitting live video over IP using UDP, SRT, and RIST protocols.
- Designed and automated end-to-end test setups with Python to configure encoders, decoders, and network paths, simulating real broadcast workflows.
- Verified Forward Error Correction (FEC) by analyzing packet recovery under varying bitrates and packet loss conditions.
- Automated FEC tests using Python and SNMP, logging results for performance analysis.

Evertz Microsystems

September 2024 – December 2024

Software QA Engineer

Burlington, Ontario

- Developed automation testing scripts using Jest for a broadcasting device to streamline video stream configurations, with a focus on multicast workflows.
- Automated API workflows to improve testing efficiency and reduce manual effort using JavaScript (Node.js) and Python.
- Simulated real-world scenarios by setting up and testing diverse environments, ensuring product performance and reliability.
- Performed API testing using Postman to validate endpoints and ensure API reliability.
- Worked with transmission protocols like UDP, SRT, and RIST, gaining hands-on experience in maintaining high-quality streaming standards.

Evertz Microsystems

January 2024 – April 2024

Product Verification Specialist

Burlington, Ontario

- Created a help webpage to make it easier for users to access documentation and troubleshooting guides.
- Used Linux CLI for tasks like imaging servers, installing software, and troubleshooting network and system issues.
- Wrote Python scripts to manage and update system configurations using PySNMP.
- Worked with SDI-IP video routers and networked systems, gaining hands-on experience with routing and device connectivity.
- Tested and verified hardware and software systems, focusing on improving reliability and identifying potential issues.

Projects

PathSense (Capstone Project) | *MongoDB, Express.js, React.js, Node.js, Stripe, Mapbox*

April 2025

- Built a full-stack event management platform similar to Eventbrite, enabling users to create, manage, and register for events.
- Integrated Stripe for secure payment processing, supporting both free and paid ticketing workflows.
- Implemented interactive event mapping with Mapbox to visualize event locations and enhance user experience.
- Developed features for multi-organizer support, ticket management, and attendee engagement.

TicketEase | *MongoDB, Express.js, React.js, Node.js*

March 2024

- Developed a ticketing system application using the MERN stack (MongoDB, Express.js, React.js, Node.js) for managing tickets efficiently.
- Implemented JWT authentication to secure user login and signup processes.
- Enabled users to create and manage tickets, upload images, and participate in discussions to resolve issues.
- Designed the application to function similarly to JIRA, providing a collaborative platform for problem-solving.

Thread Talk | *Java, Spring Boot, React.js*

December 2023

- Developed an internal discussion forum, Thread-Talk, to enhance communication and collaboration among employees within a company.
- Built the front end using React.js and the back end using Spring Boot for seamless integration and functionality.
- Enabled employees to create accounts, post content, and participate in discussions across various threads.
- Implemented content management features, allowing managers to delete posts or entire threads for moderation.
- Ensured robust security through Spring Security, protecting user data and application integrity.

Technical Skills

Programming Languages: Java, Python, JavaScript, PHP, Typescript, C, C++, C#

Frameworks: Spring Boot, Node.js, React, React Native, FastAPI, Angular, Next.js, Bootstrap, Tailwind, .NET

Database Management: MySQL, PostgreSQL, MongoDB

Networking/Network Security: Wireshark, Snort, NIST Framework

Virtualization: VMware, Hyper-V

Cloud Computing: AWS (EC2, S3, RDS) and Terraform for automated deployments, Azure (basic familiarity)

Operating Systems: Windows and Linux

Version Control: Git, BitBucket

Testing & QA: JUnit, Jest

Containerization: Working familiarity of Docker and Kubernetes

Project Management: JIRA

Leadership / Extracurricular

Freshmen Coders Club

Fall 2023 – Present

Vice President

Sheridan College

- Assist new coders and individuals who are new to programming by showcasing the exciting possibilities of coding.
- Organize workshops and events to engage members and help them build practical coding skills.
- Collaborate with other club leaders to plan activities that encourage community building and support members' growth in programming.