

# PARTHEEBAN BHARATI

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## SUMMARY

Full-stack software engineer with 2+ years of experience building scalable web applications and data platforms. Expertise in Java, Python, and JavaScript/TypeScript with strong experience in React, REST APIs, and AWS cloud infrastructure. Proven track record delivering end-to-end solutions from database design to CI/CD automation.

## EDUCATION

### University of British Columbia

Bachelor of Science, Major in Computer Science. GPA: 81%

Vancouver, BC

September 2018 – May 2023

## EXPERIENCE

### Software Developer

University of British Columbia

Sept 2025 - Present

Vancouver, BC

- Building a multilingual project website using Next.js, React, Tailwind CSS, and TypeScript with Sanity CMS integration, featuring responsive design across mobile, tablet, and desktop breakpoints.

### Software Engineer

Digital Encyclopedia of Excavations in the Levant (DEEL), Jabbar Web Development Ltd.

Vancouver, BC

Oct 2024 - Present

- Architected and deployed DEEL, a multilingual publishing platform for a Harvard-funded research initiative, using Django, React, and PostgreSQL hosted on AWS (EC2, RDS, S3, CloudFront, Lambda).
- Implemented CI/CD pipelines with GitHub Actions, enabling faster and more reliable deployments.
- Provisioned infrastructure with AWS CDK using TypeScript, creating reusable constructs for VPC networking, application load balancers, and CloudFront distributions, enabling consistent environment setup across development and production with single-command deployments.
- Built backend systems using Django REST Framework with optimized PostgreSQL queries and caching strategies to ensure sub-second response times.

### Data Engineer

ThinkCX Technologies Inc.

Jan 2025 - June 2025

Vancouver, BC

- Designed and deployed an anomaly detection framework on Redshift, improving data reliability by reducing spikes/outages.
- Led the creation of an automated QA pipeline serving data to a major US telecom that issued over 600 daily anomaly alerts, averting client-facing data problems and building trust.
- Worked cross-functionally with client team and engineering to align QA integration with reporting SLAs and analytics.
- Created a metadata-driven categorization system to reveal valuable customer insights, facilitating enhancements in downstream analytics and reporting.

### Software Engineer

The Database of Religious History, University of British Columbia

Vancouver, BC

Jun 2023 - May 2024

- Automated DOI generation using Zenodo REST API, Django, and React, reducing publication time from 6 months to real-time for hundreds of entries and eliminating significant manual effort.
- Developed a language tagging system with over 20k labels for in-depth analysis of linguistic trends in various contexts.
- Led the transition from a custom React frontend to a Wagtail CMS-based stack, empowering non-technical editors to handle content management and reducing developer support needs.
- Managed AWS deployments via GitLab CI/CD, including environment variables and automated SSL certificate renewals.
- Participated in peer code reviews and wrote unit tests to ensure code quality and maintainability.

### Software Development Engineer Intern

Amazon Inc.

May 2022 - Jul 2022

Vancouver, BC

- Accelerated internal tool rollout by 6+ weeks through a Java-based serverless feedback system using Lambda, API Gateway, DynamoDB, Cognito, and SES.
- Built reusable infrastructure and CI/CD stacks with AWS CDK, enabling faster, consistent deployments across teams.

## PROJECTS

**Jazz Logging Service:** Building a self-hosted logging platform with Go (Gin), PostgreSQL, and Docker, featuring multi-tenant architecture, RESTful APIs for log ingestion/querying, and full-text search using PostgreSQL GIN indexes.

**Interactive Data Visualization:** Developed a D3.js and TypeScript dashboard for World Happiness Report data with dynamic filtering and animated transitions.

## TECHNICAL SKILLS

**Languages:** Java, JavaScript/TypeScript, Python, Go, SQL, HTML, CSS

**Frameworks & Libraries:** React, Next.js, Django, Gin, Node.js, Express, D3.js, Tailwind CSS

**DevOps & Cloud:** AWS, Docker, CI/CD (GitHub Actions, GitLab Pipelines), Nginx, Vercel

**Databases & Tools:** PostgreSQL, Redshift, DynamoDB, Git, GraphQL, REST APIs