

PARTHEEBAN BHARATI

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EXPERIENCE

Software Engineer

2023/06 - Present

The Database of Religious History, University of British Columbia

Vancouver, BC

- Streamlined DOI minting process for entries by modifying the Django codebase
 - Researched and evaluated potential solutions leading to the selection of the Zenodo REST API
 - Eliminated significant manual effort and cut turnaround times from 6 months to immediate
- Engineered a comprehensive language tagging system with over 20,000 tags using a Python script
 - Managed the migration of this tagging system into the database using Hasura
- Co-led the design and launch of a CMS using Wagtail, enabling multiple static pages to be migrated from React
- Collaborated with non-technical research staff to resolve numerous persistent bugs and complaints

Student Programmer

2022/02 - 2022/05, 2022/09 – 2023/02

University of British Columbia

Vancouver, BC

- Architected and deployed “[Water Wiki](#),” a React application enabling users to explore and contribute data on water
 - Engineered a backend utilizing PostgreSQL for data storage and an Express API for data retrieval
 - Hosted project on a BCNet Ubuntu server
 - Employed Nginx for traffic management between the React frontend and Express API backend
- Achieved recognition for “Water Wiki,” with a [paper](#) on the project awarded Best at the Special Library Association’s 2022 Annual Conference, validating the project’s innovation in water resource management

Software Development Engineer Intern

2022/05 - 2022/07

Amazon Inc.

Vancouver, BC

- Developed a serverless Java API on AWS Lambda, optimizing user feedback processes for internal tools and reducing software engineers’ workload by 6-8 weeks per tool
- Enhanced security with AWS API Gateway and Cognito User Pools
- Built a scalable, reusable cloud infrastructure with CI/CD pipelines via AWS CDK, boosting backend integration and modularity

PROJECTS

Who Is Happy? D3.js Visualization Project

- Elevated user insights using D3.js to map global happiness trends and decode correlating factors
- Created a dynamic, interactive experience featuring a color-scaled choropleth world map, a bar chart, and a scatter plot, all interconnected to facilitate data exploration

Parkinson’s Progression: Kaggle

- Engaged in a Kaggle challenge focusing on the progression of Parkinson’s disease
- Conducted exploratory data analysis and data engineering to unearth novel features and identify significant correlations
- Employed scikit-learn and PyTorch for developing predictive models that estimate the progression of Parkinson’s disease based on protein levels and patient conditions

TECHNICAL SKILLS

Languages: Python, TypeScript/JavaScript, Java, C

Web Development: HTML/CSS, React, Django, Node.js/Express, D3.js, GraphQL, SQL

Tools: Git, AWS, Postman, Hasura, Docker

Data Science and Machine Learning: PyTorch, scikit-learn, pandas, Matplotlib

EDUCATION

University of British Columbia

Vancouver, BC

Bachelor of Science in Computer Science, GPA: A-

September 2018 – May 2023