

Ranadip Chatterjee

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EDUCATION

University of Calgary

Bachelor of Science - Computer Science

September 2018 – April 2023

Calgary, AB

Certification: Microsoft Certified: Azure Fundamentals AZ-900

April 2023

KEY SKILLS

Languages: C#, Python, TypeScript, JavaScript, Java, PHP, SQL, Bash, PowerShell

Frameworks & Libraries: ASP.NET Core, NextJS, Spring Boot, Angular, Django, Bootstrap, jQuery

Backend: NodeJS, MySQL, MongoDB, Postman, Linux (Ubuntu)

Developer Tools: Docker, Kubernetes (K3s), Git, Jira, AWS (Lambda, EC2, ECR), Azure (DevOps), VS Code

Others: MS (PowerApps, SharePoint, Power BI), Test-Driven Development, Requirements Elicitation & Analysis, CI/CD Pipeline

Personal: Effective Cross-Cultural Written and Verbal Communication, Flexibility, Detail Oriented, Active Learning

EXPERIENCE

IT Summer Student

STEP Energy Services

May 2022 – August 2022

Calgary, AB

- Provided Level I/II Desktop Support to 1000+ end users on-site and remotely in a corporate Oil & Gas environment.
- Monitored ticketing system in real time and resolved an average of 20 incoming tickets daily with regular and timely updates, documented resolution procedures, and provided support for emergency issues outside of normal hours.
- Developed dynamic web form using MS Power Apps and SharePoint with user-triggered workflows and automated data validations and reporting, reduced manual department processing time by 50% and improved data accuracy by 30% .
- Designed and coded app components using Agile principles, prototyping, and feedback to align with business goals.
- Prepared technical and user documentation to support application development and deployment.

PROJECTS

Rupantar | *Python, PyYAML, Jinja2, Markdown, Pytest*

- Developed a Markdown-based static site generator as a command-line tool for quickly building and deploying websites.
- Implemented features: Multiple customizable themes via Jinja2 templates, Bundled web server with live reload on changes, Extensible configurations via YAML/TOML, RSS feed generation, Fast build times, Low system resource usage.
- Adhered to industry standards and best practices including consistent style guide (PEP8), code optimization, refactoring, modern package and dependency management, and comprehensive unit testing.

AdShare | *ExpressJS, ReactJS, NodeJS, Socketio*

- Developed a distributed advertisement system as part of team of 5 students, followed Agile approach for estimating and tracking project milestones.
- Automated building, testing, and deployment of application via Docker containers using GitHub Actions workflows.

MERN E-Library | *MongoDB, ExpressJS, ReactJS, NodeJS*

- Led a team of 4 students in the design and development of a Library Management System web application.
- Implemented RESTful API with MongoDB integration and JWT-based user authentication and authorization.

PassCompare | *Python, numpy, pandas, matplotlib*

- Managed a 4-member group in conducting password policy research on popular websites using the zxcvbn algorithm.
- Coded Python scripts to scrape leaked passwords from online datasets, parse them and extract necessary attributes.
- Analyzed and visualized research data, generated complete reports with insights into password strength trends.

EXTRACURRICULAR & PERSONAL DEVELOPMENT

Member of UofC InfoSec Club

July 2020 – December 2021

- Actively participated in club meetings, events and competitions.
- Developed initiative, organizational, task prioritization, time management and problem solving skills.
- Practiced teamwork ethics to foster a collaborative and supportive club environment.