Karti Batura

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EDUCATION

York University – BS Computer Science [Co-Op] Graduating – Aug 2024
Toronto, Ontario

EXPERIENCE

IBM May 2023 – Aug 2024
DevOps Developer Intern *Markham, Ontario*

- Slashed costs by **$120,000+** annually by re-provisioning **IBM Cloud assets**, leveraging **Terraform** and **Ansible** playbooks.
- Implemented **Python Cronjobs** and **Bash** scripts to configure and optimize VMs and Hyper-Vs for clients, leading to a 20% improvement in system performance.
- Reduced container overhead by 30%, using **Docker** and **Kubernetes** to streamline deployment across multiple environments.
- Enhanced operational efficiency by over **60%** utilizing **Ansible Automation** to create and manage **YAML playbooks.**
- Employed **Red Hat Tower** to execute playbooks, significantly reducing manual configuration efforts by **45%.**
- Authored comprehensive runbooks for **800+ distinct alert types** to configure **PagerDuty** alerts, greatly streamlining incident response processes.
- Generated **1000+** internal pages using **Markdown**, **Gatsby Carbon theme**, and **YAML**, overhauling DevOps documentation.

Tangerine (Scotiabank) Sep 2022 – Dec 2022
Software Developer Intern *Toronto, Ontario*

- Assisted in migration of legacy monolith code-base to a distributed microservice **Backend For Frontend (BFF) architecture** pattern using **Kotlin** and **Angular.js** for the **Tangerine** mobile banking engineering department.
- Illustrated reliability through extensive **RESTful API** testing utilizing **Postman** and unit testing using **Kotest**.
- Ensured professional coding practices through utilization of **ktLint** linter and **SonarCube** Code Smells refinements.
- Participated in **Scrum** sprints utilizing **JIRA** software to resolve tickets and submit deliverables through **Git Pull Requests**.

PROJECTS

CleverDocs | *AI Vector Search, Next.js, Typescript, Convex, Clerk, Shadcn, Node.js, React*

- Created an **AI-powered** platform for storing and managing documentation and notes, enabling users to use AI to **query and search their stored content** efficiently.
- Developed and integrated **Convex mutations and queries** for robust backend operations, including file uploads, document viewing, and real-time data synchronization.
- Designed a dynamic and responsive user interface with **Shadcn**, featuring a chat widget, tabs, and skeleton loaders for enhanced user interaction and experience.

Enterprise CICD Pipeline | *EC2, Jenkins, Kubernetes, Docker, SonarQube, Nexus, Trivy, Prometheus, Grafana*

- Developed a robust pipeline from scratch, integrating **Jenkins**, **Kubernetes**, **Docker**, **SonarQube**, and **Nexus** for seamless continuous integration and deployment.
- Established secure infrastructure with **Kubernetes** clusters on **AWS EC2** instances, implementing **Role-Based Access Control** and extended email notifications for proactive system management.
- Enabled monitoring and alerting accuracy, achieving **99.9% uptime**, by configuring **Prometheus** and **Grafana** for real-time application **Health Checks.**

TECHNICAL SKILLS & CERTIFICATIONS

Languages: Java, JavaScript, Kotlin, Python, Bash, C/C++, SQL(Postgres)
Frameworks/Libraries: React.js, Node.js, Express.js, Next.js, Springboot, JUnit
Developer Tools: Git, JIRA, Confluence, Monday, Netlify, Heroku, Eclipse Vert.x
Others: MongoDB Atlas, Google Cloud, MaterialUI, Tailwind CSS, Clarify CRM, MyCSP, Excel

AWS Cloud Practitioner: AWS Cloud, EC2, S3, RDS, Lambda, IAM, CloudFormation, VPC
IBM Docker Essentials: IBM Cloud, Docker, Kubernetes, Orchestration, DockerHub