Abhijeet Karmakar

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SUMMARY

Detail-oriented Software Engineer with 1.5 years of experience in developing complex micro-services, web applications and data pipelines. Proficient in Python, Java, JavaScript and SQL. Proven ability to deliver solutions that create long-lasting impacts. Strong problem-solving skills, excellent communication, and a collaborative team spirit. Passionate about exploring new technologies and building impactful digital solutions.

SKILLS

Languages	Python, Java, JavaScript, HTML, CSS, SQL
Software	Django, Spring Boot, NodeJS, ReactJS, MySQL, MongoDB, Docker, AWS, Azure, Docker, Kubernetes
Concepts	Agile Methodology, CI/CD, Microservices, Code Reviews, Documentation, Design Patterns, Testing (unit, component, integration)
Soft Skills	Collaborative, Analytical, Problem-solving, Professional, Written and Oral Communication, Attention to Detail

EDUCATION

University of Calgary, *M.Eng in Electrical and Computer Engineering* | Calgary, AB   GPA: 3.88 / 4.0   May 2024

CERTIFICATES

System Design, *AlgoExpert*   Feb 2024
Azure Data Fundamentals, *Microsoft*   June 2024

EXPERIENCE

Volunteer Software Engineer, *New Idea Machine* | Calgary, Alberta   July 2024 - Present
- Spearheading the development of an innovative micro-learning platform tailored for the untapped energy community, fostering continuous learning and engagement.
- Leveraging NodeJS and MongoDB to create a dynamic, publicly accessible platform that invites users to discover and learn something new every day.

Volunteer Software Engineer, *Konnect Dating* | Calgary, Alberta   June 2024 - Present
- Lead microservices development using Java Spring Boot, enhancing application scalability and maintainability.
- Engineer database designs and implement encryption to ensure optimal performance and data security.
- Deploy applications on AWS to boost performance and reliability.

Volunteer, *Untapped Energy* | Calgary, Alberta   June 2024 - Present
- Organizing the high-profile Datathon event in Calgary, demonstrating exceptional teamwork and dedication.
- Developing dynamic Python notebooks and PowerBI dashboards, making complex datasets accessible and user-friendly for event participants.

Graduate Teaching Assistant, *University of Calgary* | Calgary, Alberta   Jan 2024 - April 2024
- Facilitated lab discussions in Practical Data Structures and Algorithms, promoting participation and inclusivity.
- Supported student progress through effective communication and prompt responses.

Data Engineer, *Tata Consultancy Services* | Ahmedabad, India   July 2021 - Dec 2022
- Automated territory assignments with batch data pipelines using Python and SQL, improving efficiency.
- Enhanced sales assignment accuracy by analyzing territory trends.
- Reduced processing time by 70% by converting Apex code for Salesforce CRM into data pipelines on Heroku Cloud.
- Enhanced team productivity by 20% by contributing to design discussions and all lifecycle stages.
- Increased decision-making efficiency by 30% by managing client data challenges.

Software Developer, *Tata Consultancy Services* | Ahmedabad, India   July 2021 - Dec 2022
- Developed a secure Credit Portal SaaS for customer credit checks using Python, Django, and PostgreSQL.
- Improved project efficiency and code quality through Agile practices and peer code reviews.
- Developed and enhanced the Credit Portal SaaS, ensuring security and advanced functionality.
- Enhanced system scalability by hosting on Heroku and improved decision-making efficiency by 30%.
- Expanded the system's reach into the LATAM region, growing the user base by 20%.
- Collaborated with stakeholders to implement digital solutions and resolved 15 production issues, ensuring client success.

PROJECTS

Personal Shift Manager Web App May 2024 - Present

- Creating a user-friendly platform for seamless clock-in/out and work hour tracking.
- Using ReactJS, SpringBoot, PostgreSQL and Redis for secure authentication and real-time updates.
- Aiming to deliver a robust shift management system to reduce administrative overhead and improve scheduling transparency.

Real-Time Stock Market pipeline, *Personal Project* May 2024 - Present

- Designed and implemented a data pipeline with Python and Apache Airflow.
- Developed real-time data ingestion using Google Pub/Sub. Processed data with Apache Beam for scalable handling.
- Integrated BigQuery for storing processed data, enabling high-speed querying and data analysis.
- Created Tableau dashboards for stock trend visualization.
- Technologies: Python, Apache Airflow, Google Pub/Sub, Apache Beam, Google BigQuery, Tableau

Uber Eats menu data pipeline May 2024 - May 2024

- Improved data processing speed by 50% with scalable pipelines on Google Cloud Platform for Uber Eats data.
- Utilized Google Cloud Storage, Airflow, and Python for data transformation.
- Increased data accessibility by 40% using Google BigQuery and Apache Superset for dashboards.
- Technologies: Google Cloud Storage, Python, SQL, Airflow, Google BigQuery, Apache Superset.

Analytics Dashboard for Smart Parking System, *Graduate Project* Jan 2024 - April 2024

- Collaborated with a 6-member team to implement a reservation-based parking system using Python, MySQL and Django.
- Designed ETL batch data pipelines applying data modeling and data warehousing concepts for a user-friendly analytics dashboard.
- Hosted Django Rest Framework based REST APIs using AWS cloud services.

ACHIEVEMENTS

Best graduate project award, *University of Calgary* 2024