Faria Mobeen

587-888-9254 | faria.mobeen@ucalgary.ca | linkedin.com/in/faria-mobeen | github.com/FariaMobeen | fariamobeen.com

Education

University of Calgary Calgary, AB

Bachelor of Science in Software Engineering *Graduating April 2025*

- Achievements: Dean's List, Hackathon Award (Best use of APIs/Datasets), Jason Lang Scholarship, Rhodes Scholarship Nominee, Scholars Academy Nominee

Technical Skills

Languages: C/C++, C#, Java, Python, SQL, JavaScript, TypeScript, RISC-V Assembly, HTML/CSS
Frameworks: .NET, React, Node.js, JUnit, Bootstrap, TailWindCSS
Developer Tools: Github/Gitlab, Node.js, IntelliJ IDEA, VS Code, Eclipse, Microsoft Azure, Amazon Web Services (AWS), Docker, Postman, Google Cloud, Ansible, Kubernetes, Jenkins, Terraform, Openshift, Selenium, ReadyAPI
Libraries: Material-UI, React Router, Pandas, NumPy, Matplotlib

Experience

Cloud Engineering Intern | *Symend* | *Calgary, AB* September 2024 – Present

- Optimized deployment by migrating from Azure DevOps to GitHub Actions, improving efficiency by **40%**
- Deployed Azure App Services, Plans, and Resource Groups with Terraform to enable Redis Streams observability
- Integrated CloudTruth to manage **100+** secrets, ensuring secure configuration across all stages
- Provisioned and managed Snowflake user accounts across Dev, Test, and Prod using Terraform and PR workflows
- Retired **10** unused Datadog organizations, achieving annual cost savings of $**20,000** in monitoring expenses
- Enabled IP-restricted, SSO Grafana for Redis Streams, enhancing security and observability for **10+** developers
- Configured SSO between Entra ID and SendGrid, reducing authentication setup time by **30%**
- Deactivated **5** Twilio accounts, retired **3** unused ones, and closed **4** SendGrid V1 accounts with no service impact
- Worked with account executives to ensure **100%** success in deactivations and secure future timelines
- Created a Datadog dashboard, reducing release validation time by **30%** and enhancing platform reliability

Backend Software Developer Intern | *Bell Canada* | *Calgary, AB* May 2024 – August 2024

- Implemented backend functionality to enhance efficiency of microservices for the Geospatial team
- Developed RabbitMQ messaging queue microservice to process and save data in PostgreSQL, enhancing efficiency
- Implemented Kubernetes CronJobs to run a microservice hourly for scheduled tasks
- Deployed and managed applications with Red Hat OpenShift, improving scalability and efficiency
- Automated build, test, and deployment using GitLab CI/CD, streamlining workflows and ensuring CI/CD
- Created REST APIs for publishing messages to RabbitMQ, facilitating seamless data integration
- Re-engineered microservice to use Spring Cloud Stream for RabbitMQ, enhancing messaging flexibility
- Logged metrics with Logstash and Kibana, tracking records and microservice runtime for improved monitoring
- Utilized external microservices to achieve team goals and enhance system interoperability
- Used ReadyAPI to perform and automate comprehensive tests on APIs, ensuring functionality and reliability
- Resolved functional and logic issues by autonomously troubleshooting and debugging technical challenges

Frontend Software Developer Intern | *Bell Canada* | *Calgary, AB* May 2023 – April 2024

- Enhanced a full-stack web app with ReactJS and Java, using strong organizational skills and Agile approach, achieving a **30%** efficiency increase by following best practices in SDLC
- Leveraged Postman for API testing, achieving **20%** fewer integration issues
- Participated in code reviews to enhance code and meet strategic objectives with strong communication skills
- Utilized Agile methodologies with JIRA and Confluence for efficient project organization and communication
- Demonstrated adaptability by collaborating with multi-disciplinary team to provide technical solutions

Wireless Specialist Intern | *Bell Mobility* | *Calgary, AB* May 2022 – August 2022

- Verified and resolved online alarms, enhancing cell tower system reliability with on-site technician coordination
- Utilized VBA independently to automate manual tasks in Excel, significantly improving workflow efficiency
- Collaborated with a team in Toronto to gain details on alarms, demonstrating effective information-gathering
- Crafted reports, presentations, and documentation in Microsoft Office, improving communication and tracking

Projects

BloomBot | *React Native, AWS, IoT, Terraform, DynamoDB, ESP32, TypeScript* September 2024 - April 2025

- Led a 6-member team to develop BloomBot, a smart hydroponic system, reducing development time by **20%**
- Automated environmental monitoring, improving pH, humidity, light, and temperature accuracy by **95%**
- Developed a GraphQL API for plant data and deployed a full-stack React app
- Built React Native and web apps for real-time monitoring and control, ensuring **100%** functionality
- Integrated AWS IoT Core, Lambda, and DynamoDB, handling **100+** daily transactions
- Optimized resource use to cut water and energy consumption by **15%**, enabling sustainable gardening practices

Wheat Kernel Data Analysis | *Python, Pandas, NumPy, Matplotlib, GridSearchCV, t-SNE* April 2024

- Engineered PCA and clustering techniques in Python, achieving **96%** accuracy in classifying wheat kernel varieties
- Optimized machine learning models using GridSearchCV, attaining **88%** accuracy on test data
- Implemented t-SNE for dimensionality reduction, maintaining **92%** accuracy post-reduction
- Visualized clustering results through 2D scatter plots, showcasing insights into data patterns

EventBlitz | *Java, ReactJS, HTML, CSS, Google Cloud SQL, SpringBoot, Postman, JUnit, Jest* March 2024

- Developed full-stack event management web app with Java, Spring Boot, ReactJS, showing leadership
- Created a technical design document aligning MVC and microservices architecture with **95%** accuracy
- Implemented STLC methodologies using JUnit and Jest, ensuring test coverage of **90%**
- Utilized UML for project guidance, achieving **100%** alignment with code logic

LED Control & UI | *C++, Microcontroller, MPLAB* November 2023

- Designed LED control with varying blinking speeds using interrupts, achieving **100%** accuracy in timing
- Optimized microcontroller button press management for LED control with C++, reducing response time by **30%**
- Incorporated Idle() function to manage LED state machine, improving power efficiency by **30%**
- Designed a modular LED control system with interrupts, reducing design complexity by **65%**

AI Story Generator Web App | *ReactJS, Netlify, AWS, Terraform, OpenAI, DynamoDB, Python* April 2023

- Developed full-stack story generator app with ReactJS, AWS, OpenAI, Amazon Polly, and DynamoDB
- Utilized user input as OpenAI prompts for personalized story generation, enhancing the storytelling experience
- Implemented AWS Lambda for story generation and narration, reducing processing time by **30%**
- Developed AWS backend infrastructure with Terraform, decreasing deployment time by **25%**