ANAND DARSHAN

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Working Rights = Australian Citizen
Personal Developer Portfolio

INTRODUCTION

A dedicated Software Developer/Engineer with a strong emphasis on creating intuitive, user-focused applications that deliver seamless experiences. Passionate about clean architecture, automation, and building scalable solutions that meet real-world needs. Recognized for being highly adaptable, dependable, and quick to learn, with a strong work ethic and a commitment to continuous improvement and collaboration.

WORK EXPERIENCE

May 2022 – May 2025

Software Engineer -   Shell Energy Australia

Projects Involved

eProfiler – Powermetric Portal
A web platform providing internal staff and external customers with dashboards, detailed reports, and meter data insights. Features include user management, custom report groups, and impersonation for efficient customer support.

Key Contributions:
- **Migrated legacy Ember codebase to React,** improving user experience and enabling faster, more scalable future enhancements.
- **Implemented AWS Cognito advanced security** for user authentication, enhancing security and reducing compliance overhead through scalable, industry-standard identity management.
- **Refactored code** for the BCR initiative to align Shell Energy with Shell's regulatory compliance requirements, successfully delivering in a dynamic environment with evolving standards.
- **Integrated SIMAAS to support Shell authentication for Single Sign-On (SSO) for internal users,** enhancing security, improving user experience, and ensuring compliance with corporate identity management standards.
- **Enhanced reporting performance in the eProfiler portal** by designing and implementing an improved ETL process using **AWS DMS, S3, Step Functions, and**

Athena. This upgrade streamlined data extraction and transformation from SQL Server to S3, enabling faster, automated, and queryable reports—**reducing load times by over 60% and significantly minimizing manual intervention**.

MMS (Meter Management System)

The Meter Management System underpins Powermetric's operations by integrating CRM data, managing invoicing, and enabling B2B communication with market operators. It also supports field operations for meter installation and maintenance.

Key Contributions:
- **Developed** and maintained **microservices using C# .NET Core**, enabling modular, scalable, and independently deployable components across the MMS platform.
- **Refactored** monolithic services into **loosely coupled APIs**, improving maintainability and reducing deployment risk.
- **Enhanced logging** to improve system monitoring and accelerate issue resolution, reducing downtime and support costs.
- **Implemented a rules engine** to replace hard-coded validation rules, increasing flexibility and reducing development time for future updates.
- **Improved CI/CD pipelines**, speeding up deployment cycles and boosting release reliability for faster time-to-market.

FFA-Lite

FFA-Lite is a Salesforce-based solution designed to streamline field service operations. The platform includes a **web-based UI for schedulers** and a **mobile app for technicians**, enabling efficient assignment, dispatch, and real-time updates.

Key Contributions:
- **Integrated Fully Managed Connectors logs from Confluent Cloud to Datadog**, enabling real-time monitoring and faster issue detection.
- **Set up automated testing pipelines**, improving code quality and reducing manual QA efforts, leading to faster and more reliable releases.
- **Configured Sink Connectors to Salesforce**, ensuring seamless data synchronization between Confluent Cloud and Salesforce.

Technical Stack

- **Front-end**: Dynamics CRM, React, Tailwind CSS
- **Back-end**: C# .NET Core, Typescript, SQL, Dynamics CRM Databases, AWS (Lambda, S3, DynamoDB, SQS, SNS, EC2, ECS, Step Functions, CloudWatch, CloudFormation), Confluent Cloud
- **Source Code Management and Repository**: GIT, GitHub, Azure repos.
- **Logging & Monitoring**: Datadog, CloudWatch
- **CI/CD platform**: Azure DevOps
- **Event Based Communication**: nServiceBus with RabbitMQ, Apache Kafka

General

- Actively participate in daily Scrum meetings to align with team goals and project progress
- Maintain clear and consistent communication with business stakeholders and team members via email and Microsoft Teams
- Complete all mandatory organizational training to stay compliant and up to date.
- Share newly acquired knowledge and best practices with the team to foster continuous learning and collaboration.

April 2016 – June 2017

Associate Software Engineer - Deerwalk Services Pvt Ltd

Project Involved

CLEAR
Edelberg's proprietary coding platform provides real-time reporting and critical data.

Key Contributions:

- **Developed** back-end services in **Scala** using **functional programming paradigms** and **Slick ORM**, supporting a real-time healthcare analytics platform.
- **Implemented** RESTful APIs and optimized SQL queries to enhance performance and data reliability.
- **Automated** report generation using Python and cron jobs, saving manual effort and ensuring timely delivery of critical business insights.
- **Built** real-time dashboards with FusionCharts, enabling data-driven decision-making with up-to-date visual analytics.
- **Developed** web interfaces and backend services as needed, supporting scalable feature delivery and improving overall system usability and maintainability.

Technical Stack

- **Front-end**: Laravel, Bootstrap, jQuery, PHP libraries, HTML
- **Back-end**: Scala, Slick (REST API), Python, SQL
- **Source Code Management**: GIT
- **Cloud Computing**: AWS

CORE COMPETENCIES

- **Programming Languages & Frameworks:** C#, .NET, Typescript, React, Java, Python, PHP, Scala, C, C++, JavaScript, jQuery, HTML, CSS, Bootstrap, Laravel, Spring, Struts, Android, Django, Flutter,

- **Databases & ORM:** SQL, MySQL, Oracle, PostgreSQL, Hibernate ORM, Slick ORM
- **Containerization & Cloud Platforms:** Docker, AWS, Confluent Cloud
- **Testing**: xUnit, Cypress, Jest
- **Version Control & CI/CD:** GIT, Azure DevOps
- **Development Tools & IDEs:** IntelliJ IDEA, Eclipse, Visual Studio, Android Studio, PhpStorm, Visual Studio Code
- **Agile Methodologies:** Scrum – experienced in iterative development, sprint planning, and team collaboration
- **Soft Skills:**
    - Effective communicator – able to clearly articulate technical concepts to diverse audiences
    - Analytical thinker – strong problem-solving skills with attention to detail
    - Team-oriented – collaborative and supportive in cross-functional environments
    - Self-motivated & adaptable – quick to learn new technologies and embrace change
    - Quality-focused – committed to writing clean, maintainable code and delivering high-quality solutions

EDUCATION

Master of Information Technology and Systems (MITS)
University of Tasmania (UTAS), Churchill Avenue, Hobart TAS 7005
Graduated in 2019.

Bachelor of Information Management (BIM)
St. Xavier's College, Maitighar, Kathmandu-Nepal.
Graduated in 2015.

TRAINING AND CERTIFICATION

ACS Professional Year Program
Indus Institute, Level 1/162 Macquarie St, Hobart TAS 7000
Graduated in 2020

AWS Certified Developer - Associate certification
Issued Date: Feb 21, 2024
Expiration Date: Feb 21, 2027

Secure Code Warrior: Genin - OWASP Top 10

REFERENCES

Available upon request.