# Erdal Kologlu

Backend Developer • Solutions Engineer • Technical Product Specialist

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## Professional Summary

Experienced IT professional with 20+ years across software development, backend systems, cloud engineering, and automation. Strong history of delivering stable, scalable technical solutions, resolving deeply embedded software issues, and building tools that improve operational efficiency. Known for critical thinking, problem-solving, and strengthening client confidence through timely solutions.

## Core Skills

• AWS (Lambda, S3, SNS, SQS, EC2, RDS, CloudWatch, Glue, Quicksight, Athena)

• Python, Perl, Bash/Shell, JavaScript, SQL

• Linux systems, Docker, Git, Bitbucket

• MySQL, SQL Server (Stored Procedures, Functions, Views)

• Flask/Jinja2, RESTful services, XML/JSON

• Monitoring: Grafana, Loki, Nagios, Zabbix

• Agile development, Confluence, Jira

## Experience

### Software Engineer – Weatherzone (2018 – current)

Lead developer for backend data pipelines, AWS serverless workloads, ingestion workflows and internal tooling. Known for resolving complex production issues, improving reliability, and building tools that save significant time for operational teams.

• Built and maintained automated data pipelines using Python, Perl, Bash, Linux, AWS, MySQL and S3.

• Developed 30+ AWS Lambda functions and serverless workflows enhancing automation and throughput.

• Created and delivered a robust Flask-based internal toolset ('Ops Tools'), deployed via Docker, which significantly reduced manual work for implementation and support teams.

• Resolved a critical customer-impacting issue embedded deep in the codebase — quickly identified root cause, developed a solution, restored functionality, and ensured a major client could continue operations without disruption.

• Strengthened client confidence by demonstrating capability to deliver urgent fixes under pressure.

• Provided team-wide communication and insights to help prevent recurrence of similar issues.

• Redesigned weather model ingestion pipelines (BOM, ECMWF, DWD ICON, GFS), improving reliability and speed.

• Implemented observability using Loki/Grafana, reducing incident response time and increasing visibility.

• Liaised with enterprise clients including BHP, Rio Tinto and Glencore, supporting data feeds and integrations.

• Continued professional development through ongoing online training, positively impacting technical depth and organisational value.

• Took ownership of creating a new company BI solution using AWS Glue, Athena and QuickSight, producing actionable dashboards that made DTN API log metrics easy to understand and monitor.

**Developer – Beazley Group / Bluesource (2014 – 2018)**

Developed internal Perl applications, SQL Server reports, automated processes and full-stack enhancements.

**Software Developer – Self Employed (2012 – 2014)**

Delivered full-stack budgeting, sales management and lead-generation platforms using Perl, SQL, JavaScript and C#.

**Analyst Programmer – Mortgage Choice (2010 – 2012)**

Maintained and enhanced Perl-based brokerage systems and MySQL-backed applications.

**Analyst Programmer – BNP Paribas (2008 – 2010)**

Developed reporting solutions, C# tooling and enhancements to unit-pricing systems.

**Analyst Programmer / Technical Lead – Resimac Ltd. (2003 – 2008)**

Led enhancements to PowerBuilder/C#/Perl systems, improving reliability and reducing incidents.

**Software Programmer – Prowess Development (1999 – 2003)**

Developed PowerBuilder, SQL, reporting and web-based systems across multiple projects.

## Education

• Diploma – Analyst Programmer, Sydney Institute of Technology

• Associate Diploma – Mechanical Engineering, Sydney Institute of Technology

• Higher School Certificate – Randwick Boys' High School