Eddie Corrigall

CONTACT

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SUMARY

I'm looking to be part of a team, have a well defined role, and ownership over a product or service. When I spend time learning, its to become an expert at whatever I might be responsible for, so that I can help train and foster the working environment surrounding me.

I want to get involved with big projects and work with passionate people. I have a strong desire to work with a mobile, backend or frontend team to deliver quality products and services to happy customers.

My personality suits most. I'm a social kind of developer and easy to work with. I'm open to new ideas and like to share my opinions when I see an opportunity for improvement and efficiency within an organization.

What I've worked on in the past

- Stabilized and sped up deployments — reduced failure rate and enabling business hour deployments even during peak traffic
- Improved geolocation accuracy — migrated geolocation services from MaxMind to IP2Location without downtime, modifying platform or database schema migration
- Report authoring, a core analytics feature, to allow customers to create segmentation reports
- Led team web frontend refactor to help deliver unified experience across company
- Rewrote an ecommerce offer service to support 3rd party integration and in-house couponing to be vendor agnostic, easily maintained and faster
- Developed product mapping solution for many-to-many relationship using a connected sub-components and breadth-first search algorithm
- Mining big data using Apache Hadoop and Apache PigLatin
- Data analytics using Python Pandas, NumPy, SciKit Learn
- Real-time analytic software using C# Windows Presentation Foundation (WPF)
- Crowd sourcing application using Amazon Web Services (AWS) Mechanical Turk (mTurk)
- Custom implementation of I2C bus and LPC bus in C for an embedded security platform
- Web portal written in SQL, PHP, JavaScript for team knowledge tracking application

Side Projects

I have many side projects, these projects get me involved in technologies to strengthen my abilities and satisfy my ambition for knowledge. Some of them are publicly available on my github account.

A particular project of mine that has had success is [xlsx-populate](), where I have been able to collaborate online to create a NodeJS Excel framework.

EDUCATION

Waterloo, Ontario
University of Waterloo

Honours Bachelor of Computer Science with Co-op

AWS Training and Certifications

- AWS Certified Developer - Associate 2018 (Verification # 9JZ0Y2GCJME4QRW9)
- AWS Certified Solutions Architect - Associate 2019 (In-progress)

Coursera.org Courses

- Programming Mobile Applications for Android Handheld Systems: Part 1
- Programming Mobile Applications for Android Handheld Systems: Part 2
- Programming Mobile Services for Android Handheld Systems: Communication
- The Data Scientist's Toolbox
- R Programming

PROFESSIONAL EXPERIENCE

Software Engineer

August 2017 — *present*
Toronto, Ontario
Acquia

Environment: Agile, Scrum, Git, Java, Liquibase, Maven, CloudFormation, EC2, ElastiCache, Redshift, Data Pipelines, RDS, DynamoDB, Route53

- AWS Certified Developer - Associate 2018, see Education section
- Decoupled monolithic deploy: increase stability and speed so that it can be done even at peak traffic peak
- Resolved database throttling in Rest API: identified problem using thread dump, found a short

term solution, helped plan and coordinate database migration

- Led team web frontend refactor to help deliver unified experience across company
- Led security initiative to overhaul AWS resource access
- Wrote core feature, report authoring, to provide customers custom analytics
- Improved existing geo-location integration with no service interruption

Platform Engineer

January 2016 — August 2017
Toronto, Ontario
Unata Inc. (Acquired by Instacart)

Environment: Python, PyTest, Flask, SQLAlchemy, Alembic, Postgres, Flask, Memcached, Redis, Redis Queue, Supervisor, Ansible, Vagrant, JIRA, SOAP, REST, bash, tmux, vim, git

Began work as a mix of QA, DevOps, and Integration engineering. Transitioned into a new role in 2017 as a platform engineer focusing on feature development.

Previously handled all technical aspects of client services,

- on-call technical support for disaster recovery
- providing hot-fix solutions to comply with service-level agreement
- first to assess and troubleshoot issues affecting customer eCommerce experience
- preparation and deployment of new software releases to staging and production environments
- coordinating downtime and hardware upgrades for retailer environments

Responsible for the implementation of data integration with 3rd parties and Unata platform to support new eCommerce features.

Made improvements to existing integration software by building tools to gain insight on platform operations and increase efficiency within the partner success team.

Data Scientist

February 2015 — September 2015
Toronto, Ontario
EyeReturn Marketing

Environment: Hadoop, Pig Latin, Jython, HIVE, MySQL, MS SQL, JIRA, Confluence, Pentaho, BIRT

- Wrote Hadoop Pig Latin processors as part of anti-fraud efforts
- Took initiative to design and implement more efficient data science mining tools
- Managed ad campaigns, increased performance metrics and wrote final reports for clients

Database Analyst

April 2014 — August 2014
Kitchener, Ontario
AIRO Health

Environment: Python, NumPy, Matplotlib, Pandas, HDF5, SciKit Learn, HIPS Spearmint, MIT StarCluster, Amazon Web Services EC2, Linux

- Set foundation for all future development and machine learning by defining new database structures with HDF5 and utilizing Python library Pandas for large scale vector operations
- Worked with team to design robust heartbeat detector for the purpose of localizing high-quality beat intervals, cleaning signal and supporting graph analytics
- Wrote Matplotlib graph analytic tools to gain insight into optical signals
- Extracted and designed feature sets from heart signals to model macronutrient and caloric intake

Software Developer

May 2012 — December 2012
Waterloo, Ontario
ON Semiconductors

Environment: C# .NET, Visual C#, Microsoft Visual Studios, Window Presentation Foundation, Eclipse, MATLAB, Amazon Web Services: EC2, Mechanical Turk

- Collaborated with software development team to meet product deadlines
- Enabled field engineers to customize and configure ON Semiconductors real-time embedded platform technology
- Instigated solution to reduce cost of certifying company algorithms using Amazon Mechanical Turk
- Developed technical specifications for system development and implemented tools to measure quality of crowd source data using Principal Component Analysis

Embedded Software Engineer

September 2011 — December 2011
Shelton, Connecticut, USA
Pitney Bowes

Environment: Eclipse, C / C++, Interrupt Service Routine, GPIO, LPC bus, I2C bus, Linux

- Developed prototype facilitating core cryptographic products with guidance from MIT electrical engineers
- Utilized interrupt service routine and non-blocking functions in the development of a finite state machine (FSM) written in C to drive Low-Pin Count (LPC) bus over GPIO

- Validated product reliability with test data to safeguard architecture and evaluate performance and reliability of systems implemented
- Carried out the design and development of secure message level protocol utilizing newly implemented LPC driver for application-to-application communication between co-processors

Web Developer

January 2011 — April 2011
Waterloo, Ontario
The Economical Insurance Group / Economical Insurance

Environment: HTML5, CSS3, JavaScript, jQuery, Java, JUnit, JSP, J2EE, JDBC, Oracle, IBM DB2, IBM WebSEAL, RATIONAL ClearCase

- Worked with small team to rewrite a key application for fire rating and territory management
- Required to match existing application functionality by dissecting J2EE source code and IBM DB2 queries
- Developed new broker service based, on existing software requirements
- Applied test-driven development practices using JUnit
- Practiced full stack development while relieving pressure from the Broker Support Team
- Wrote IBM DB2 transactions to safeguard database from application failure

Web Developer

May 2010 — August 2010
Waterloo, Ontario, Canada
The Economical Insurance Group / Economical Insurance

Environment: PHP, Apache, JavaScript, jQuery UI, AJAX, JSON, HTML5, CSS3, Oracle, IBM DB2, IBM WebSEAL, VBA

- Tasked with development of self-serving portal for employees to log their skill set and track team knowledge, strengths and weaknesses
- Investigated use cases and documented web service requirements to develop application using JavaScript and PHP
- Created database schema, wrote IBM DB2 queries, exposed data through custom JSON API and connected front-end via AJAX
- Supported application using PHP back-end with a JavaScript interface designed using jQuery UI
- Created and optimized content for web service using a variety of graphics and useful file formats to enable ease of access and processing for business leadership
- Conducted tests, quality controls, and implemented secure practises

Software Developer

September 2009 – December 2009
Guelph, Ontario, Canada
GeoSign / Moxy Media / TSAVO Media

Environment: C# .NET, ASP .NET, Log4Net, Microsoft Team Foundation Server, MS SQL Server, SOAP, FogBugz

- Used development expertise to maintain ASP .NET and C# web infrastructure

- Actively participated in bug-fixing tasks with FogBugz ticket tracking and Microsoft Team Foundation Server

- Automated queries to notify finance and server team managers via email about critical changes in databases

- Improved company financial data gathering by converting cross-company transactions to Simple Object Access Protocol (SOAP) jobs