Andreas Gerold

Developer and Engineer

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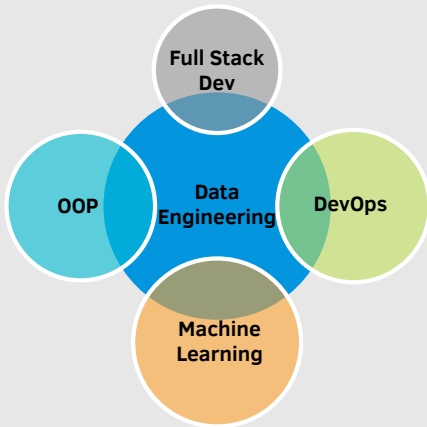
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Technical Skills

Overview

Programming

$0\ LOC$ ———→ $5000\ LOC$

Scala • Java • Python

JavaScript • SQL • LaTeX

C • C++ • R

Education

MSc., Computer Science (GPA: 3.7)
Specialization: Data Mining
University of Guelph
2015 - 2017 | Guelph, Canada

BEng., Computer Engineering (GPA: 4.0)
University of Pune
2009 - 2013 | Pune, India

Experience

April 2017 - Present	**Machine Learning Engineer**	Bell

- Focused on developing machine learning models, production deployment, unit testing, scaling and performance tuning
- Projects: SMS spam detection, Robocall detection
  Tools: Kafka, Flume, Spark, Hive, Solr, Jupyter Lab, Kubernetes, Docker
  Awards: Merit Gold (2x), Merit Platinum
- Presented several talks on Machine Learning and Big Data at university hackathons and Bell internal conferences
- Conducted interviews for junior, and senior, data engineering roles

Sep 2015 - May 2016	**Co-founder & Full Stack Developer**	LocalXChange Inc.

- In a team of 2, raised $8,000 in funding from The Hub incubator at the University of Guelph, to develop a hyperlocal content platform, aimed at delivering local news and events to local users in realtime
- In a team of 3, built hybrid mobile & web apps with Ionic, Angular.js and MongoDB, surpassing 1,000 users within a month since launch
- Met with the Mayor of Guelph and University of Guelph officials to discuss how the app can help boost Guelph Tourism

Sep 2015 - Dec 2016	**Graduate Teaching Assistant**	University of Guelph

- TA for CIS*2430 (OOP), CIS*4150 (Software Reliability & Testing) and CIS*3530 (Database Systems & Concepts) courses
- Delivered several lectures for CIS*3530 when professor was away at a conference

Dec 2013 - Apr 2015	**Test Automation Engineer**	Synechron

- Primarily developed test automation libraries using Java and C#, scripts and CI / CD pipelines
- Lead development of a Keyword Driven & Behavior Driven test framework for Microsoft Dynamics CRM. Earned monetary award & client appreciation.
- Demonstrated that rewriting an in-house test framework for Microsoft Dynamics AX, using an open source library (White) instead of a proprietary one (Coded UI), would help the team save $4K annually by downgrading Microsoft Visual Studio

Research

2015 - 2017	**MSc. Candidate, Graduate Research Assistant**	University of Guelph

Thesis: Data Integration from Multiple Historical Sources to Study Canadian Casualties of WWI

- Proposed a stepwise deterministic method to integrate datasets without labeled data. The method performs comparably with a method that incorporates a Support Vector Machine
- Prepared a longitudinal dataset to enable comprehensive analyses about WWI Canadian society and military, seeding further research
- **Tools**: R, Python, scikit-learn, pandas

Publications

L. Antonie, H. Gadgil, G. Grewal, and K. Inwood, "Historical Data Integration - A Study of WWI Canadian Soldiers," in 2016 IEEE 16th International Conference on Data Mining Workshops (ICDMW), pp. 186-193, IEEE, 2016.