

Christopher Roper

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Summary of Qualifications

Software developer seeking to build disruptive technologies by applying creative problem-solving capabilities and a broad range of professional experience. Relevant skills include:

- Proficient: C++, Java
- Intermediate: Python, PHP, JavaScript, SQL
- Back-end, mobile, OOP development
- Complex application design/maintenance
- Machine learning/statistical analysis
- Time series regression and forecasting

Education

MS, Software Development (GPA: 4.0)	2018
University of Utah, School of Computing	
MBA, Corporate Finance	2012
University of Notre Dame, Mendoza College of Business	
BA, Economics	2007
Brigham Young University	

Projects

Android/Web Chat Application

- HTTP server supporting multiple WebSocket connections
- JavaScript event listeners, HTML element modification via Document Object Model API

Android Personal Wellness Application

- Model-View-ViewModel architecture incorporating Room database with AWS back-up
- Step counter and media playback controlled through customized gestures

Flight Path Optimizer

- Determines optimal flight paths between airports based on user-supplied criteria
- Implements Dijkstra's algorithm and considers various node edge weights

Work Experience

Software Engineer Intern	2018
Symantec Corporation (MS Capstone)	
<ul style="list-style-type: none">• Developed supervised anomaly detection model to identify potential security threats• Applied AWS SageMaker Random Cut Forest and k-means clustering methodologies	
Software Engineer Intern	2018
Clearlink	
<ul style="list-style-type: none">• Utilized Vue.js, Laravel, and MySQL within Model-View-Controller architecture• Test-driven development of RESTful API architecture via Postman and SQL queries	
VP, Senior Model Risk Officer	2012 – 2017
Zions Bancorporation	
<ul style="list-style-type: none">• Validated data sources, replicated model coefficients and testing, and challenged modeling decisions and rationale through alternative strategies• Assessed the appropriateness of qualitative inputs, quantitative forecasts, modeled approaches, and assumptions used in capital planning• Tested for variable stationarity, residual autocorrelation and corrective methods, variable selection and transformation processes, and autoregressive structures• Instituted periodic performance monitoring to assess model accuracy and reliability	