Christopher Roper

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Summary of Qualifications

Seeking to apply creative problem-solving capabilities and a broad range of professional experience in the field of software development. Relevant skills include:

- C/C++, C#, Java, PHP, JavaScript, Python, SQL
- Full-stack development
- Complex application design/maintenance
- Statistical analysis/diagnostics
- Time series regression and forecasting
- Credit/investment analysis

Education

MS, Software Development (GPA: 4.0) (exp) 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/Coursework

Full-stack Client/Server Application

- Multithreaded WebSocket back-end design, JSON message parsing, Android implementation
- Tools used: Eclipse, Android Studio

Various Computer/Network Security Components

- SSL handshake/file transfer, HTTP proxy server, Diffie-Hellman key exchange, HMAC authentication
- Tools used: Eclipse, Xcode, Java security/crypto libraries

Work Experience

Software Engineer Intern 2018 – present
Symantec Corporation

- In conjunction with MS Capstone, developed supervised machine learning anomaly detection model to identify unknown security threats and high-priority events
- Tools used: AWS S3, Sagemaker, Jupyter

Software Engineer Intern 2018 – present
Clearlink

- Front/back-end web development utilizing RESTful API architecture and MVC framework
- API versioning, database updates/migrations
- Tools used: Node.js, Babel, NPM, Vue.js, PHP/Laravel, Docker

VP, Senior Model Risk Officer 2012 – 2017
Zions Bancorporation

- 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