Miles Lindheimer

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OBJECTIVE

Exercise programming and development skills in a stimulating and challenging environment.

EDUCATION

University of California, Berkeley
B.A., Computer Science, 2015
Honors: Dean's List 2012
GPA: 3.2

Campolindo High School
Moraga, California
Diploma June 2011
GPA: 4.0

TECHNICAL SKILLS

Languages:
Java, C/C++, Python,
SQL, JavaScript

Frameworks:
Spring, Hibernate, Camel, React,
Backbone, OpenCV, Mockito

Tools:
Git, Tomcat, Maven, Gradle,
JUnit, Eclipse, Bash, Jira

WORK EXPERIENCE

Software Development Intern
ZoomSystems, San Francisco, CA (2014, 2015)

- **RESTful API design and Client Templating**:
  Reworked legacy JSP-driven API to provide
  RESTful API for frontend developers and
  integrated with GUI templating framework
- **Log Collection and Analysis with ELK Stack:**
  Developed, tested, deployed production server
  to consume company logs for visual analysis
- **Visual Motion Detector:**
  Built using webcams and image processing,
  written in Java with OpenCV

Associate Enterprise Technical Developer
SMUD, Sacramento, CA (2016 – Present)

- **Application Development Lifecycle:**
  Designed, developed, tested, and deployed
  applications in an Agile work environment
- **Legacy Infrastructure Support:**
  Maintained, troubleshot, and further developed
  legacy applications and infrastructure
- **On Call Production Support**
  Rotating 24/7 support for production
  applications supporting critical infrastructure

PROJECTS

Optical Flow Gesture Tracker:

- C/C++, OpenCV, OpenMP
- Detects and tracks hand gestures using Pyramidal
  Lucas-Kanade method for optical flow analysis

Distributed DNS Resolver:

- Scala, Apache Spark
- Implemented non-blocking symmetric hash join
  within Spark's source code for a DNS resolver

Energy Commodities Tracking System:

- Java, JavaScript, SQL, Spring, Hibernate, React
- Worked with users to determine business
  requirements
- Rebuilt legacy, rich client inventory application to
  make web-based and more maintainable
- Integrated existing data into services and APIs
- Designed and implemented frontend using React
  and Flux, Enzyme and Selenium for testing

Energy Trading Resource Optimization:

- Java, SQL, Spring, Hibernate, Camel
- Designed to produce significant savings of both
  money and energy
- Automated collection and integration of various
  datasources (Excel, CSV, databases, web services)
  into vendor-built portfolio optimization system
- Integration of data from optimization system for
  reporting and post-analytics