

Jun Yan (James) Ma

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EDUCATION

Purdue University, West Lafayette, IN
B.S. Computer Science, Minor in Psychology

Dec 2012
GPA: 3.61/4.00

SUMMARY

2-years Amazon software developer specializing in data serialization formats, Java, Unix, service frameworks, design patterns, performance testing, TDD. Successful in both individual and team based work in AGILE environments. I'm a Singapore citizen exploring relocation.

TECHNICAL SKILLS

- Languages: Java, Ruby, C, C++, C#
- Databases: SQL, MongoDB, DynamoDB
- Platforms & Tools: Unix, Git, AWS, Android, Windows Phone, Eclipse, IntelliJ
- Web: Rails, HTML, CSS, JavaScript

WORK EXPERIENCE

Software Development Engineer 2 – Amazon, Seattle, WA

Mar 2013 - Now

- Build and support serialization libraries for a proprietary data format in Java, C++, Perl, which are widely used internally for input, output, persistence, and schema. The data format has a textual representation that is human readable, and a binary representation that is compact and efficient.
- Reduce binary serialization and resurrection time by 30% for large payloads using lazy serialization techniques in the Java implementations. It resulted in reducing more than \$0.5MM USD operational expense per year within order processing systems for Amazon Fresh.
- Build and support a modular and extensible performance test suite as an Apache Tomcat service for the libraries. It can collect production payloads, generate synthetic payloads, execute and generate graphical reports of API latencies, memory usage, and payload sizes.
- Build and support a Java byte-code instrumentation engine as part of an object-binding framework. The engine supports build-time and run-time byte-code instrumentation of Java classes.
- Design specification for signature of data payloads. Implemented signature generation and verification.

Teaching Assistant – Purdue University, West Lafayette, IN

Aug – Dec 2012

- Assisted professor in grading students' coursework for Software Engineering course.
- Coordinated with teams of students to guide them in the completion of their projects through reviewing designs, implementations and presentations.

Software Development Engineer Intern – Amazon, Seattle, WA

May – Aug 2012

- Developed an Eclipse plugin for a proprietary data format with features of syntax and semantic validation.
- Utilized open-source Xtext domain-specific language (DSL) framework to bootstrap the development.

PROJECTS

Android – Purdue Maps

Aug – Sept 2012

- Location-based phone application for navigating around campus buildings.
- Utilized SQLite and XML parsing techniques to generate the database of locations.

Windows Phone – Metrocam

Jan – May 2012

- Picture sharing phone application like Instagram using Silverlight framework in C# and MongoDB.

Website – Deal Aggregator

Jan – May 2012

- Website that aggregates deals from deal sites using a web crawler, NLP, and Ruby on Rails.

AWARDS

Dean's List, Semester Honors

CLUBS

Salsa Dance Club, Purdue Latin & Ballroom Dance Team