

Jun Yan (James) Ma

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EDUCATION Purdue University, West Lafayette, IN **Dec 2012**
B.S. Computer Science, Minor in Psychology **GPA: 3.61/4.00**

SUMMARY 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 Singaporean seeking software development opportunities.

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 Engineer – PocketMath, Singapore June 2015 – Now

- Work in the back end real time bidding systems that processes up to 40 billion impressions per day, fulfilling requests within 100 ms (including network round-trip time).
- Work with Ops to identify bottlenecks in back end systems and resolved a month-long network latency issue that caused significant time outs, through TCP/IP, AWS ELB, Apache httpd analysis.

Software Development Engineer 2 – Amazon, Seattle, WA Mar 2013 – May 2015

- Built and supported 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 isomorphic.
- Reduced 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.
- Built and supported 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.
- Designed specifications for secure signatures of proprietary data payloads. Implemented signature generation and verification.

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