# Ameya Ketkar

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## EDUCATION

### MS/PHD | COMPUTER SCIENCE
**Oregon State University**
Expected Dec 2018/2021 | Corvallis, OR
Cum. GPA: 3.6

### BE | COMPUTER ENGINEERING
**Mumbai University**
Passed with Distinction

## LINKS

Github: **ameyaKetkar**
LinkedIn: **ameya-ketkar**

## COURSEWORK

### GRADUATE
Programming Languages
Software Engineering
Algorithms and Data Structures
Modularity in Programming languages
Graph Theory
Artificial Intelligence

## SKILLS

### PROGRAMMING
**Over 5000 lines**:
• Java • C#
• MySQL
**Over 1000 lines**:
• C • C++ • Haskell • Standard ML
**Familiar**:
• Idris • Scala
**Frameworks and Tools**:
• Java-Spring • Eclipse-JDT • Error-prone
• Apache-Camel • JAXB • J-Behave

## AWARDS

• Outstanding Contribution 2016 (Barclays - 2016)
• Distinguished Artifact Award (OOPSLA-2017)

## EXPERIENCE

### BARCLAYS | Technical Analyst
Securitized Product Technology | August 2014 – February 2015 | Pune, India

- Developed UI for front desk traders to buy and sell loans in the market, using C#,WPF and PRISM Framework.
- Enhanced Risk Matrix (Mathematical Model) for precise Loan Risk calculations, in Java.

Trade And Transaction Reporting | February 2015 – August 2016 | Pune, India

- Developed the trade reporting engine for Hong-Kong Monetary Authority in Java.
- Responsible for UAT and Production support of this product after the first release.
- Developed a test suite for testing the 40 outgoing reports to HKMA and Bank Of England, using mockito and JBehave.
- Set up continuous-integration environment for the application calculations, in Java.
- Designed and developed the architecture for the module which handled report generation for all 40 reports.
- Designed and developed the trade confirmation module.

## RESEARCH

### OREGON STATE UNIVERSITY | Software Evolution Group
Jan 2017 – Present | Corvallis,OR
Advisor:Dr.Danny Dig

- Working in collaboration with Google's Error Prone team, to develop a refactoring tool using the error-prone infrastructure, for eliminating auto-boxing by specializing the usages of functional interface and Optionals for very large code bases.
- Developed a refactoring tool in Eclipse-JDT for the same. Results : functional interface and Optionals.
- Performed a large-scale empirical study on the top 2000 open source java project on GitHub, to study the adoption of functional programming in java.
- Developed static analysis tools, to understand the proliferation of functional programming in java source code.

## PUBLICATONS

- Davood Mazinanian, Ameya Ketkar, Nikolaos Tsantalis, and Danny Dig. 2017. Understanding the Use of Lambda Expressions in Java. Proc. ACM Program. Lang. 1, OOPSLA, Article 85 (October 2017), 31 pages.

## SERVICES

- Sub-Reviewer |ASE 2017
- Volunteer English Teacher, Teach India | Mumbai, India