

Morgen Peschke

18224D Hale Ave, Morgan Hill, CA 95037
(408) 724-0713 - morgen.peschke@gmail.com
<http://www.linkedin.com/in/morgenpeschke>
<https://github.com/morgen-peschke>

SKILLS LANGUAGES

Skills	Basic Functional Programming, OOP Basic Linux administration, Web Programming Database Design, Parallel programming
Languages	Scala, Java, HTML JavaScript, CSS, Bash Python, Ruby, MySQL
Frameworks	Play, Java Swing, Ruby on Rails

PROJECTS

Scala Glob SCALA	github.com/morgen-peschke/scala-glob <ul style="list-style-type: none">Matches strings using shell glob syntax.
Table Name to Class Gem RUBY - ACTIVERECORD	rubygems.org/gems/table-name-to-class <ul style="list-style-type: none">Resolves ActiveRecord database table names to the associated ActiveRecord class.Correctly handles namespaced tables, and overridden table names.
Parsed Attributes Gem RUBY	rubygems.org/gems/parsed-attributes <ul style="list-style-type: none">Provides simplified handling of parsed data through linked attributes.

WORK EXPERIENCE

Software Engineer TRUEACCORD Scala	Jun 2015 - Feb 2017 Sunnyvale, CA <ul style="list-style-type: none">Led our technical integration with a major bank<ul style="list-style-type: none">Designed and implemented framework for integration via the FICO protocolBuilt compatibility layer for working with COBOL recordsActed as local expert on the FICO specificationAdded ability to represent failed ACH payments<ul style="list-style-type: none">Cleanly integrated new functionality into complicated payment logicEnabled analysts to track impact of ACH representation by providing detailed operational metricsDisabled the feature with a 1 line change, when impact was deemed undesirable
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Software Engineer
SERIALTEK
Java, C++

Sept 2014 - Jun 2015
San Jose, CA

- Engineered and implemented a major refactoring of our custom automated integration test framework
 - Separated test and production code
 - Delivered greater flexibility and a shorter feedback cycle during test development
 - Enhanced granularity of feedback provided by tests
- Championed modernization of Java Coding Conventions
 - Generated the rough draft of replacement conventions document
 - Drove the feedback-integration cycle
 - Authored the final, accepted, copy
- Refined and implemented NVMe filtering extension of existing PCIe filtering GUI

Software Engineer
CALLTRACKINGMETRICS
Ruby, JavaScript, HTML/CSS

Feb 2014 - Jul 2014
Severn, MD

- Designed, implemented, and maintained the Custom Display Formatting feature.
 - Solved a long-standing issue with phone numbers that have a non-standard representation
 - Highly complex feature required code in three inter-related systems, written in Ruby, Lua, and JavaScript.
- Designed and implemented integration with Box cloud storage via OAuth2
 - Enabled customers to bulk export call audio
- Significantly expanded test suite coverage.

Software Engineer
MANTECH INTERNATIONAL
C, Python, C++

Jun 2013 - Feb 2014
Hanover, MD

- Completed the MCIS Advanced Cyber Training Program (ACTP)
- Lead initial design and development of quiz-style recruiting website

EDUCATION

Bachelor of Science: Computer Science
BRIGHAM YOUNG UNIVERSITY - IDAHO (BYU-I)

July 2013
Rexburg, ID

Relevant Coursework

Algorithms and Complexity, Web Engineering, Networking, Operating Systems, Software Engineering, Database Design

Projects

- Genetic Optimization of the Ant Colony family of algorithms
<https://github.com/morgen-peschke/ant-colony-optimizer>
- 2D Boolean Network implementation of Conway's Game of Life
<https://github.com/morgen-peschke/conway-boolean-network>