

# Morgen Peschke

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<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** [github.com/morgen-peschke/scala-glob](https://github.com/morgen-peschke/scala-glob)  
SCALA

- Matches strings using shell glob syntax.

**Table Name to Class Gem** [rubygems.org/gems/table-name-to-class](https://rubygems.org/gems/table-name-to-class)  
RUBY - ACTIVERECORD

- Resolves ActiveRecord database table names to the associated ActiveRecord class.
- Correctly handles namespaced tables, and overridden table names.

**Parsed Attributes Gem** [rubygems.org/gems/parsed-attributes](https://rubygems.org/gems/parsed-attributes)  
RUBY

- Provides simplified handling of parsed data through linked attributes.

## WORK EXPERIENCE

**Software Engineer** Jun 2015 - Present  
TRUEACCORD Sunnyvale, CA  
Scala

- Led our technical integration with a major bank
  - Designed and implemented framework for integration via the FICO protocol
  - Built compatibility layer for working with COBOL records
  - Acted as local expert on the FICO specification
- Added ability to represent failed ACH payments
  - Cleanly integrated new functionality into complicated payment logic
  - Enabled analysts to track impact of ACH representation by providing detailed operational metrics
  - Disabled the feature with a 1 line change, when impact was deemed undesirable

**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>