

Morgen Peschke

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<https://github.com/morgen-peschke>

SKILLS LANGUAGES

Skills Basic Functional Programming, OOP
Basic Linux administration, Web Programming
Database Design, Parallel programming

Languages Scala, Java, Ruby, HTML
JavaScript, CSS, Python
MySQL, Bash, C/C++

Frameworks Play, Java Swing, Ruby on Rails

PROJECTS

Table Name to Class Gem 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
RUBY

- Provides simplified handling of parsed data through linked attributes.

WORK EXPERIENCE

Software Engineer Jun 2015 - Present
TRUEACCORD Sunnyvale, CA
Scala

- Lead our technical integration with a major bank
 - Designed and implemented framework for integration via the FICO protocol
 - Build 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>