

Morgen Peschke

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

SKILLS LANGUAGES

Skills	Functional Programming, OOP Basic Linux administration, Web Programming Database Design, Parallel programming
Languages	Scala, Java, HTML, JavaScript, CSS, Bash Ruby, MySQL, Redshift SQL
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

Staff Software Engineer
LIVONGO — TELADOC
Scala, SQL, Bash

Feb 2017 - Present
Mountain View, CA

- Redesigned registration architecture for increased conversion and maintainability
 - Encoded registration flow as data, for increased visibility into user experience - particularly when rendered to PDF
 - Encoded transformations as declarative data structure, for traceability when implementing A/B testing and client-specific customizations
 - Reduced maintenance burden from multiple tickets per week to 1-2 tickets per sprint
- Built cli client for registration
 - Enabled scripting the registration experience, greatly improving bug reproducibility
 - Generated random valid answers enabled reproducing and debugging without tripping duplicate account checks
 - Rendering registration flows to PDF greatly eased communication with Product and Design teams
- Designed and build tooling to ingest client data files using an ingestion specification
 - Normalized structure from CSV, Fixed Width, and XML files to a standard structure
 - Normalized and mapped fields from customer input formats to standard format
 - Reported errors with breadcrumbs to record and field in input file, regardless of input type
- Designed and built ingestion pipeline for recruitable population
 - Provided unification of records from various files based on common identity criteria
 - Calculated eligibility and inferred diagnoses to guide outreach
 - Gathered user data into a standard set of fields for use during outreach and registration
- Refined and made generic a fuzzy matching library to increase registration conversion
 - Enabled skipping multiple steps during registration
 - Rule-based fuzzy matching allowed the creation of a batch version to close data gaps
 - Later leveraged to identify and prevent creation of duplicate accounts

Software Engineer
TRUEACCORD
Scala

Jun 2015 - Feb 2017
Sunnyvale, CA

- 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

Teaching Assistant

BYU-I, COMPUTER SCIENCE DEPARTMENT
C++, Perl, Bash, JavaScript, Java

Jan 2012 - Jun 2013

Rexburg, ID

- Designed and built test harnesses for student projects
 - Enabled students to test their work, increasing understanding and confidence
 - Greatly reduced grading turn-around time and complexity

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>