Morgen Peschke

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https://github.com/morgen-peschke

SKILLS LANGUAGES		
	Skills	Web Programming, Database Design, OOP POSIX and Windows programming APIs Basic Linux administration, Parallel programming
	Languages	Java, Ruby, HTML JavaScript, CSS, C/C++ Perl, Python, MySQL, Bash
	Frameworks	Ruby on Rails, Java Swing

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   Sept 2014 - Present
SERIALTEK   San Jose, CA
Java, C++

- 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   Feb 2014 - Jul 2014
CALLTRACKINGMETRICS   Severn, MD
Ruby, JavaScript, HTML/CSS

- 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   Jun 2013 - Feb 2014
MANTECH INTERNATIONAL   Hanover, MD
C, Python, C++

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

EDUCATION **Bachelor of Science: Computer Science**   July 2013
BRIGHAM YOUNG UNIVERSITY - IDAHO (BYU-I)   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