

# COLIN LEBENS

colin.lebens@gmail.com

<https://github.com/clebens>

## PROFESSIONAL EXPERIENCE

**2015-2017**

### SWAT STUDIOS / ALPHAPREP

Developer

- Full-stack development on a Learning Management System for standardized test prep that uses statistical analysis to tailor test content to a student's current knowledge level (<https://alphaprep.net>)
  - Backend development in C# .NET, using the .NET MVC and NancyFX frameworks
  - Frontend development using a variety of Javascript libraries, including jQuery, Handlebars, Vue.js, and an internally-managed Javascript framework
- Helped steer development toward SOLID Principles and accepted Design Patterns to produce more modular, flexible code
- Took measures to improve testability of legacy code, including managing application dependencies using the SimpleInjector Dependency Injection container library
- Helped migrate architecture from a monolithic architecture toward a Service-Oriented architecture interfaced via a REST API
- Worked directly under lead developer and had strong influence on architectural development
- Assisted with server administration via Azure Management Portal

**2010-2014**

### MOHR INTELLECTUAL PROPERTY LAW SOLUTIONS

Patent Attorney

**Summer 2007**

### FRASER STRYKER PC LLO

Summer Associate

**2003-2005**

### NADLER BROTHERS COMPANY

IT Specialist

## EDUCATION

**2014**

### PORTLAND CODE SCHOOL

Javascript Full Stack Course

- Learned to use a variety of Javascript libraries and tools, including: Node.JS, Express.JS, jQuery, Backbone.JS, Handlebars
- Capstone Project: NBA Food Fight (no longer operational, but source code available at <https://github.com/ciaventures/NBA-Food-Fight>)

- Allows users to play along with in-arena awards at NBA games
- Node.JS / Orchestrate (NoSQL) back-end, Backbone.js front-end

**2005-2008**

## **LEWIS AND CLARK LAW SCHOOL**

Juris Doctor

**2000-2005**

## **IOWA STATE UNIVERSITY**

B.S., Computer Engineering

## **RELEVANT SKILLS / EXPERIENCE**

---

### **C#**

- Experience developing within a mature C# .NET MVC application
- Utilized design patterns (including classic Gang of Four patterns) to improve the Modularity and Testability of the existing code
- Developed a Service-Oriented API accessed through a NancyFX-based REST Interface and integrated it within an existing .NET MVC application

### **SQL / Databases**

- Designed queries that request data from multiple tables in a SQL database to efficiently handle web requests
- Integrated a SQL Server Database with a C# backend application via multiple ORMs, including Dapper and Entity Framework
- Experience working with the MongoDB and the official .NET MongoDB library to build a prototype feature schema

### **Javascript**

- Developed a prototype Vue.js-based Infrastructure for a front-end application built to communicate with our REST API, including developing a Vue plugin to efficiently handle API requests from within our application
- Worked with a variety of frontend frameworks and libraries, including jQuery, Vue.js, Ember.js, and an in-house Javascript library built and managed internally by SWAT Studios developers
- Backend development with Node.JS and Express.JS, including using Gulp to manage frontend build tasks
- Frontend development with jQuery and Backbone.JS

### **C / C++**

- Worked with C / C++ extensively in core computer science courses during my undergraduate education
- Developed device drivers for an embedded linux system
- Worked with pointers, memory manipulation, and hardware addressing

### **Linux / Unix Command Line**

- Worked with Unix-based systems for 15+ years
- Strong familiarity with common command-line tools and simple Bash shell scripting

### **Ruby / Rails**

- Completed coursework in Engineering Software as a Service (SaaS) through EdX, with assignments covering Ruby on Rails, Cucumber, and RSpec
- Contributed to Feedbin, an open source RSS reader built on Rails

### **Python**

- Developed applications in online coursework, Cryptography I through Coursera and Artificial Intelligence through EdX

### **Scala**

- Developed functional programs in coursework in Functional Programming Principles in Scala through Coursera
- Additional functional programming experience in SML and Racket in the Programming Languages course on Coursera

## Java

- Developed a variety of applications in both my B.S. degree program and through independent coursework

# INDEPENDENT COURSEWORK

---

## Portland State University

ECE 372: Microprocessor Interfacing & Embedded Systems

## Portland State University

ECE 373: Embedded Operating Systems & Device Drivers

## EdX

Engineering Software as a Service, pts. 1 and 2 (UC Berkeley)

## Coursera

Automata (Stanford)

## Coursera

Cryptography I (Stanford)

## Coursera

Functional Programming Principles in Scala (EPFL)

## Coursera

Programming Languages (University of Washington)

## Coursera

Algorithms: Design & Analysis, Part 1 (Stanford)

## Coursera

Algorithms, Part I (Princeton)

## Coursera

Algorithms, Part II (Princeton)

## EdX

Artificial Intelligence (UC Berkeley)

## Coursera

Machine Learning (Stanford)

## Stanford Online

Databases (Relational Databases and SQL: Foundations & Practice)