

# Zachary Verbeck

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## EDUCATION

### UNIVERSITY OF WASHINGTON

INFORMATICS: HUMAN COMPUTER  
INTERACTION

Expected June 2015 | Seattle, WA

## LINKS

Github:// [zachverb](#)

LinkedIn:// [zachary-verbeck](#)

## COURSEWORK

Artificial Intelligence  
Functional Programming  
Advanced Databases  
Data Structures & Algorithms  
Web Programming  
Project Management  
Data Migration  
Information Ethics & Policy  
Programming Concepts & Tools

## SKILLS

### LANGUAGES & TOOLS

Over 1000 lines:

Java • Shell • JavaScript • Rails  
HTML5/CSS • PHP • LISP (Racket)  
Android • C • Node.js • Express.js  
Ruby

Familiar:

C++ • Python • Mongo • MySQL  
PostgreSQL • SQL Server • C#  
Linux • AWS • Git • Heroku • .NET

## EXPERIENCE

### TYEMILL | SOFTWARE ENGINEERING INTERN

June 2014 – Sep 2014 | Seattle, WA

- Worked as a developer on a team of five interns to develop and design an application that displays economic data by geography
- Designed and developed a Ruby on Rails application that utilized Google Maps API, Highcharts and jQuery Mobile
- Led the development of the mobile version of the website

### CONNEX SOLUTIONS | DATA ENGINEER

April 2014 – June 2014 | Seattle, WA

- Designed and created data models and data flows for the data migration of a corporate CRM system
- Led a team of 3; assigned and tracked work
- Developed a .NET application that moves data from a legacy database system to Microsoft Dynamics CRM

## PROJECTS

### LOOP SPACE | COLLABORATIVE MUSIC APPLICATION

January 2015-June 2015 | Informatics Capstone

Currently creating a Cloud-Based Android application that will allow for cross-device audio collaboration. Utilizes a Node.js server for the REST API hosted on Heroku and hooked up to AWS with PostgreSQL for real-time audio transfer.

### OSCL8R | LEAP MOTION WEB SYNTHESIZER

October 2014 | Dubhacks

Lead developer of oscl8r, a Leap Motion Synthesizer that plays notes based on the location of your hands. Each hand connects to a different synthesizer, the left hand being tritones and the right being arpeggios. Movement of your hand alters the pitch and cutoff frequency.

### THOUGHTLINK | GLOBAL CLASSROOM PLATFORM

October 2014 | Startup Weekend EDU

Prototyped an online platform that would allow International Baccalaureate students from separate schools to communicate and discuss their coursework.

### ARP+ WEB SYNTHESIZER | HTML5 SYNTHESIZER

Jan 2014

Created an HTML5 Synthesizer based on design of Korg Kaossilator. Used the Webkit Audio API for Chrome to create a synthesizer. The app plays arpeggios based on the location of the user's mouse.

## AWARDS

2014 Best use of Leap Motion, Dubhacks