

# Matthew Morscher

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## Education

### BACHELORS OF SCIENCE | ROSE-HULMAN INSTITUTE OF TECHNOLOGY | MAY 2018

Major: Computer Engineering

Minor: Computer Science

GPA: 3.44

- Relevant Courses: Web Programming, Object-Oriented Programming, Data Structures & Algorithms, Databases

## Experience

### SOFTWARE ENGINEERING INTERN | HC1.COM | JUNE 2017 – AUGUST 2017

- Integrated user tracking metrics into application to collect detailed data around consumption to lead to better service visibility for customers
- Performed significant research to implement AWS to its full potential
- Utilized many AWS tools to collect the data, store it in s3, and perform analytics on it to gain the desired information
  - Kinesis, Analytics, Firehose, s3, EMR, Athena, QuickSight
- Documented information about entirety of work on Confluence for use by future employees

### SOFTWARE ENGINEERING INTERN | NEXTGEAR CAPITAL | JUNE 2016 – AUGUST 2016

- Performed full-stack software development in an Agile environment during two week sprints.
- Implemented numerous user interface enhancements related to list management, sorting, database updates, and credentials related to NextGear accounts
- Completed numerous website UI enhancements
- Performed bi-weekly sprint demos to the software development team and entire business side of the company

### INTRODUCTION TO DATABASES | ROSE-HULMAN | DECEMBER 2016 – FEBRUARY 2017

- Created an Android app for clubs at Rose-Hulman
- Used NodeJS and created a SQL Server database
- Integrated RoseFire to allow Rose-Hulman students to log into the app with their Rose-Hulman credentials
- Utilized Tables, Views, Stored Procedures, Triggers, and Indexes

### COMPUTING IN A GLOBAL SOCIETY | ROSE-HULMAN | SEPTEMBER 2016 – APRIL 2017

- Researched to Revolutionize the Swedish healthcare system for the year 2025 and presented results to highest Swedish medical officials
- Working remotely with Gannon University (Erie, PA) and Uppsala University (Uppsala, Sweden) in two time zones

## Skills & Abilities

### SOFTWARE

- HTML, JavaScript, CSS, Java, C, Python, Maven, MATLAB, Office Suite, Raspberry Pi Interface
- Amazon Web Services: Kinesis, Analytics, Firehose, S3, Athena, EMR (Spark and Hive), QuickSight
- Alloy, Yices, Yakindu, TLA+, PlusCal
- Agile Methodology