

# JACOB SCHWARTZ

Senior Software Engineer

Interested in backend/API development with Scala, search using Elasticsearch, maximizing productivity and food trucks.

## WORK EXPERIENCE

### SIGNAL LABS

Senior Software Engineer - Search & Analytics | Oct, 2017 – Current

### SIGNAL LABS

Software Engineer | Sep, 2015 – Oct, 2017

I had several responsibilities as a member of the backend engineering team. My main responsibility was the implementation and testing of new features for the backend of the web application but I also worked on the realtime data ingestion pipeline that was the source for the vast majority of the data in the system.

- Developed and tested several key features for the data pipeline.
- Created the first tests for the backend search API.
- Advised the backend engineering team's transition into a more rigid agile and release process.

### ELBRYNS NETWORKS

Software Engineer | Jan, 2014 – Sep, 2015

I worked alongside the engineers at Tallac Networks on their cloud-managed networking solution. It was my responsibility to develop, support and help architect a backend solution that collected streams of data, automated operations for the devices to execute, and manipulated data to be used by the front end using the application's JSON REST API.

- Sole developer of the backend application and REST API for wireless management solution.
- Interoperated with a cross-country team, that consisted of architects, front end, QA and embedded engineers.
- Performed MongoDB migrations, index optimizations, and scaling through sharding.
- Resolved both errors and performance issues that improved responsiveness at application and database layers.
- Scaled system to handle over a thousand access points constantly communicating with the backend.
- Assisted with DevOps duties to maintain good overall system health.

## UNIVERSITY OF NEW HAMPSHIRE

Teaching Assistant | Sep, 2012 – Dec, 2013

Taught students in Introduction to Computer Science I and II introductory concepts to programming and Object-Oriented methodologies.

## ELBRYNS NETWORKS

Intern | May, 2010 – Aug, 2013

During the summer breaks, I worked with a small agile team on their mobile fitness app GrokLife, which evolved into a health data aggregation platform, REST API and corresponding mobile SDKs.

- Helped create and launch company's first iOS and Android app.
- Assisted in designing and developing mobile SDKs to record and send health data from the mobile device to the cloud.
- Learned about the Agile methodology and contributed to company's first Agile team.
- Integrated with several 3rd party APIs, including Fitbit, RunKeeper, Wahoo Fitness and Withings.

## UNIVERSITY OF NEW HAMPSHIRE - PROGRAMMING ASSISTANCE CENTER

Java Consultant | Sep, 2009 – May, 2012

Mentored students taking Intro to Computer Science I and II learn basic programming skills and techniques and aided in the debugging and explaining behind various problems in their code.

### EDUCATION

## UNIVERSITY OF NEW HAMPSHIRE

Master's Degree - Computer Science | Sep, 2012 – Dec, 2013

## UNIVERSITY OF NEW HAMPSHIRE

Bachelor's Degree - Computer Science | Sep, 2008 – May, 2012

Magna Cum Laude University Honors

### CONTACT INFORMATION

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