

# XIN LIU

Software Engineer

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## EDUCATION

### **Rochester Institute of Technology**

Graduation: Dec 2020

Web and Mobile Computing, BS

GPA: 3.98

## SKILLS

### **Languages**

Java, JavaScript, Python, SQL, Bash

### **Frameworks / Libraries**

Node.js, Express, Handlebars, React, Angular, Dropwizard, Spark, Flask

### **Databases**

MongoDB, MySQL, PostgreSQL, Firebase

### **Others**

Git, AWS, Apache Kafka, Docker, Linux

## ACHIEVEMENTS

### **Bertelsmann Technology**

#### **Scholarship - AI Track**

2019 Recipient

- Chosen among a competition pool of 15,000 individuals worldwide to participate and learn about the basics of deep learning, neural networks using PyTorch.

### **Grow with Google Scholarship – Mobile Web Track**

2018 Recipient

- Selected to participate in a 3-month online challenge sponsored by Google with developers and students across the country to learn about modern JavaScript and best practices for PWAs.

### **JP Morgan Chase – Code for Good 2017 Hackathon**

Second Place Winner

- Led a team of 5 individuals to compete against 10 other teams to create an application for a non-profit organization in 24 hours.

## EXPERIENCE

### **Software Engineer Intern @ HubSpot**

June 2020 – August 2020

- Updated an existing **Dropwizard** RESTful API service to utilize **Elasticsearch** to index user data for more accurate and faster search queries.
- Identified and optimized the response time of a slow endpoint from an average of 150ms to 50ms by implementing a **Kafka** consumer to consume published Write-Behind Logs and run high-latency database I/O operations required by the endpoint.
- Refactored core classes used throughout the codebase to follow the Single Responsibility Principle to reduce technical debt and promote code readability and maintainability.
- Designed and implemented a reusable **Hadoop MapReduce** job to parse millions of stored data in **HBase** and rewrite them into new formats.

### **Software Engineer Intern @ Fidelity Investments**

May 2019 – August 2019

- Developed a dashboard with **Angular**, **Spring Boot** and **OracleDB** to monitor financial data to be used by advisors to increase customer retention.
- Designed and implemented a **Java** program to parse application logs into an Excel spreadsheet to monitor user activity on the Wealthscape platform.
- Patched XSS and CORS vulnerabilities in existing **ASP.NET** applications to prevent potential application exploits.
- Updated a Spring Boot web service to be cloud-ready on **Pivotal Cloud Foundry** by storing application secrets on Spring Cloud Config and HashiCorp Vault to increase application security.

### **Full Stack Developer @ Pathfinder.VET**

January 2017 – May 2020

- Built an event registration system using the **MVC** architectural pattern for users to register and create events - leading to a 25% increase in user engagement.
- Constructed a **RESTful API** using **Node.js** and **Express** to manipulate data stored in **MongoDB** to be used by both web and mobile clients for code reusability.

### **Software Developer Intern @ Maalka**

September 2017 – January 2018

- Developed an open-source web application created with **Node.js**, **Express**, **React** and **MongoDB** that converts the Building Energy Data Exchange Specification (BEDES) from XML format to JSON format.
- Utilized **Docker** to host application containers on a **Linux** VM in **Azure** for ease of application management and maintainability.

## PROJECTS

### **StocksWatch @ <https://stockswatch.tk/>**

- Serverless web application that allows users to monitor historical prices of 7925 publicly traded stocks using data pulled from AWS RDS via Lambda functions. Deployed on Netlify with CI/CD support. Unit tested using Jest and Enzyme.

Technologies: **React**, **Node.js**, **PostgreSQL**, **Highcharts**, **AWS** (Lambda, API Gateway, RDS)

### **Piggy @ <https://github.com/XinnyLiuu/Piggy>**

- Android application for tracking expenses with support for subscription reminders. Designed and implemented to be reactive by using the MVVM design pattern.

Technologies: **Android**, **Kotlin**, **Fragments**, **ViewModel**, **Room**, **MPAndroidChart**