

# ALIVIA GUIN

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## EDUCATION

### **Masters of Science in Computer Software Engineering** **Northeastern University, Seattle**

GPA: 3.92/4.0  
Dec 2021

Courses: Program Structure and Algorithms, Application Engineering Development, Web Development, Data Management and Database Design, Object Oriented Design, Data Science Engineering, Smartphone-based web technologies

### **Bachelor of Technology in Information Technology** **West Bengal University of Technology, Kolkata, India**

GPA: 8.2/10  
May 2013

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## TECHNICAL SKILLS

- *Languages:* Java, JavaScript, Python, Ruby, Swift, SQL
- *Web Technologies:* HTML, CSS, ReactJS, AngularJS, REST, Ruby on Rails, Node.js, Express, JSON
- *Database Technologies:* MySQL, MSSQL, MongoDB, DynamoDB
- *Others:* XCode, Visual Studio, IIS, MVC, AWS, Linux, Eclipse, Git, Jira, Cloud Computing

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## WORK EXPERIENCE

### **Tyemill LLC., Software Developer** (Ruby, Ruby on Rails, Postgres SQL, AWS, Heroku)

May 2022 – Jan 2023

- Designed and developed end-to-end web applications using MVC framework of Ruby on Rails
- Designed and developed RESTful APIs to perform CRUD operations on PostgreSQL using ActiveRecord
- Emphasized on test-driven-development by using RSpec and replacing partials with ViewComponent
- Developed and hosted scripts on AWS EC2 to upload data files inside S3
- Collaborated on developing CI/CD tools to deploy web application on Heroku servers

### **Examity Inc., Full-Stack Developer Co-op** (Java, JavaScript, Angular, C#, Python, SQL)

Jan 2021 – Jul 2021

- Responsible for end-end software stack development using Angular, Python and SQL
- Designed and developed Python REST APIs that connects to MS SQL database to perform various CRUD operations
- Worked on agile software development environment in CI/CD pipeline while constantly building new features
- Exported settings into database to decouple it from the core application logic and lazily load them as needed

### **Bank of India, Operations Data Associate**

Jun 2015 – Feb 2018

- Worked on Finacle to gain insights into banking data and analyzed performances on credit data of customers

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## ACADEMIC PROJECTS

### **Drone Delivery Simulator** (Java, Swing, Design Patterns)

Fall 2020

- Designed and developed drone-based package delivery simulator for moving packages within a delivery map area
- Leveraged design patterns and implemented different algorithms to govern the drone movement and emit metrics
- Used Swing to build an interactive user interface for algorithmic selection and visualize drone movements

### **Todo Application** (JavaScript, React, REST, HTML, CSS)

Spring 2020

- Developed React-based single page application (SPA) for tracking tasks and mark them as completed or uncompleted
- Returned JSON data from the REST services supported by Express server to display the React functional components

### **Online Job Portal Database Systems** (MS SQL, Power BI)

Summer 2020

- Designed database diagram (ERD) to implement a job portal system
- Implemented functionality checking for phone number formats and triggers to auto populate data into database
- Generated visualization reports through views and using Power BI

### **Sentiment Analysis on Food Review** (Python, NumPy, Pandas, scikit-learn)

Fall 2020

- Used Machine Learning to perform sentiment analysis and summarize 55000 dataset of Amazon food reviews

## INDEPENDENT PROJECTS

### **E-commerce platform** (Java, API Gateway, AWS Lambda, DynamoDB)

Fall 2019

- Designed and developed an e-commerce backend system using API Gateway, AWS Lambda and DynamoDB
- Implemented function handlers to keep track of the inventory and raise modeled exceptions on out-of-stock scenarios

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## TRAINING AND CERTIFICATIONS

- Software Engineering Virtual Experience at JP Morgan & Chase
- GCP Essential Training
- Northeastern University Design Patterns Workshop

Summer 2020  
Fall 2019  
Summer 2020