Ryan O'Connor

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Objective

To create and maintain full-stack websites and mobile applications.

Software Projects

- **AtoB Mobility Inc.**
  - I am a full-stack developer at a new startup company called AtoB Mobility Inc, a ride-sharing company which allows drivers to pick up multiple passengers in one trip if there are other passengers nearby that want to go to a similar destination.
  - Added input validation to all user-submitted data, email verification, and a 'forgot password' feature to the website.
  - Used the Stripe API to process payments.
  - Setup AWS EC2 and RDS instances to host the website.
  - Added feature in iOS app where the user can send and retrieve data from a remote server from their iPhone
  - **Used:** MySQL, NodeJS, AWS, Bootstrap, Stripe API, Google Maps API, SwiftUI, Xcode iOS.
- ***Group Finder Web Application***
  - Led a team of 3 people to create a LAMP web application hosted on an EC2 instance on Amazon Web Services.
  - Users can post school projects on the website and look for projects posted by other users based on the skills needed for the project.
  - Prevented SQL injections and cross-site scripting attacks using parameterized SQL queries and input sanitization.
  - **Used:** Linux, AWS EC2, AWS RDS, Apache Web Server, PHP
- **Machine Learning for NIPSCO Dataset**
  - Used a decision tree algorithm to determine if NIPSCO customers on a payment plan would be more likely to make less late payments.
  - **Used:** PyPM, Python, scikit-learn, NumPY, matplotlib

Education

Hammond, IN   Purdue University Northwest   Aug 2020 – Present

- **Major:** Computer Science B.S.E
- **Minor**: Computer Engineering
- **Coursework:** Data Structures, Database Systems, Software Engineering, Circuit Analysis, Statistics

Employment

Service Checker   Jewel Osco   June 2019 – November 2021

- Provided on-site training to many cashiers and courtesy clerks.
- Collaborated with coworkers to help customers and fill e-commerce orders.