

# Justin Kyle Pimentel

North York, Toronto, Ontario

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## Professional Experience

### Humber College

Contracted App/Website Developer Work

September 2023 – April 2024

Remote (Toronto, Ontario)

- Collaboratively planned & developed an app-website pair with a teammate and project sponsor.
- Created a project proposal and timeline with semi-weekly progress meetings and goal setting.
- Demonstrated leadership in the project planning and worked on the website mostly; set up a React app which would communicate with a Firebase database and auth system over FB's API.
- Utilized GitHub to achieve synchronous and collaborative group programming.

### Real Canadian Superstore

Produce Clerk

August 2024 – October 2024

Simcoe, Ontario

## Education

Advanced Diploma in Computer Programming and Analysis  
Academic Award of Excellence, Dean's Honor List, GPA: 3.7 (92.1%)

Humber College

September 2021 – April 2024

Ontario Secondary School Diploma  
Graduated with honors.

Holy Trinity Catholic High School  
2017-2021

## Significant Projects

- Various Full-Stack Websites
  - I've created full-stack websites in React JavaScript, C# (ASP.NET MVC), Spring, and Django.
  - Integrated frontend and backend security using REST APIs according to industry standard.
  - Set up backend databases using SQL, NoSQL, MongoDB, Postgres, Node.js, and Express.js.
  - I've also implemented the necessary security functionality per each web framework.
- AWS Inventory Tracking System
  - Created a serverless inventory tracking system, eliminating the need for Amazon EC2:
  - On upload of an inventory CSV file to an Amazon S3 bucket, a Lambda function would trigger, read the CSV file, and insert the items into an Amazon DynamoDB table.
  - Another Lambda function monitored the DynamoDB table for updates and would send SMS notifications through Amazon SNS when inventory levels are critically low.
  - Built using a CloudFormation template, utilizing the benefits of infrastructure as code.

## Major Areas of Study:

### SQL Database Programming (Grade: 90)

- Developed PL/SQL application code blocks to perform complex CRUD operations in SQL.
- Experienced using Oracle SQL Developer with live database networks (SQL 12c servers).
- Utilized nested cursors and tables of records to return organized sets of data.
- Gained an understanding of dependency, permissions, and associated security concerns.
- Enforced security through encryption, redaction, privileges, roles, and password profiles.

### Artificial Intelligence & Machine Learning (Grade: 99)

- Prepared data for use in training and evaluating regression and classification models.
- Gained an in-depth understanding of the underlying systems used in deep learning, such as the ways that attention works and how Decoder-Encoder and Recurrent Neural Networks work.
- Created complex models such as CNNs, RNNs, and LSTMs, using TensorFlow and PyTorch.

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#### Cloud Computing & Security in Amazon Web Services (Grade: 97)

- Successfully configured and deployed (in a test environment) various AWS services, enabling the building of scalable, reliable, and cost-effective solutions on the cloud.
- Minimised attack surface using IAM, VPC routing, NACLs, security groups, and private subnets.

#### Computer and Application Security (Grade: 87)

- Studied and implemented security concepts like the CIA triad and Principle of Least Privilege.
- Utilized various security testing techniques, such as code review, penetration testing, and vulnerability scanning to proactively identify and address security weaknesses in applications.
- Simulated and analyzed various security threats and how they can be mitigated; for example, OWASP Top 10 web application threats like XSS, SQL injection, and session management issues.
- Implemented techniques such as input validation, output encoding, and error handling.
- Implemented strong authentication and authorization mechanisms to control access to application resources and protect sensitive data according to Privacy by Design principles.
- Understood incident response protocols and procedures to effectively manage security incidents and minimize their impact on the application and its users.
- Implemented security practices and considerations throughout the entire SDLC to ensure integrated application security.

#### Full-Stack Web Development in HTML & JavaScript (Grade: 99)

- Developed full-Stack JS web apps using modern industry standard web technologies.
- Used MongoDB, Express.js and NoSQL databases to create REST APIs and Microservices.
- Designed dynamic views using template engines for Node.js applications.
- Built a frontend React dashboard which interacts securely with the backend REST APIs.
- Configured and deployed a MERN web application on a HTTP server by integrating frontend and backend while using authentication, authorization, and JWTs to improve security.
- Deployed a full-stack JavaScript web app onto the internet using cloud web services.

#### Full-Stack Web Development in Python Django (Grade: 99)

- Created Full-stack web applications with REST APIs and Microservices using Django.
- Used Django models with Object Relational Mapping to create database-type agnostic database and object relations, mostly using SQLite but also with other solutions.
- Gathered requirements for, modeled, and implemented data storage solutions.
- Also created dynamic webpages and Django forms using the Jinja Templating engine.
- Implemented security with user authentication and authorization using Django.
- *Additionally, I have a 4 years of non-web experience with Python.*

#### Full-Stack Web Development in C# using ASP .NET within the MVC Framework (Grade: 98)

- Used the MVC Framework extensively to design and rapidly implement dynamic web pages.
- Fully integrated models with Microsoft Entity Framework for CRUD operations on SQL databases.
- Implemented industry-standard user account authentication and authorization.
- Gained widely applicable experience with C# and Microsoft's .NET framework.
- I also have personal experience programming with Visual Basic (.NET).

#### Full-Stack Web Development in Java Spring Boot (Grade: 88)

- Developed Full-Stack Java web apps using modern industry standard web technologies.
- Discussed the Model-View-Controller pattern using Servlets and JavaServer Pages.
- Used Spring JDBC and JPA to create Data Models that work with custom queries (with paging and sorting) along with REST APIs using HATEOAS Protocol.
- Learned how to hide complex UI interaction inside tag libraries.
- Implemented Spring Web Security with Patterns in Security Filter Chain and User Profiles.
- Designed dynamic HTML5 web pages using the Thymeleaf web template engine.