Project Experiences:

- **N-gram Frequency Builder (Object Oriented Programming):**

  I designed and implemented a Java program to analyze text files and generate a map showing the frequency of each n-gram present.

- **Multi-Threaded Indexing API (Advanced Object Oriented Programming):**

  I developed a Java program using Virtual Threads to enhance performance. The program parses a text file, maps unique words to their definitions, and notes the respective text pages.

- **Simulated Database Implementation (Database Design):**

  I utilized XAMPP, MySQL, and PHPMyAdmin to create a mock relational database simulating the operations of a dentist's office.

- **Simulated Web Storefront (Web Development):**

  I crafted an interactive digital storefront for a music instrument enterprise. I leveraged HTML, CSS, Javascript, and PHP to maintain a dynamic product database.

- **Sorting Algorithm Comparison Program (Computational Thinking with Algorithms):**

  I constructed a Java program to assess the efficiency of a selection of sorting algorithms, demonstrating the Big O time complexity of each and presenting the data in a table.

- **J-Unit Test Suite (Agile Software Development):**

  I refactored a given program (insurance company calculator) for J-Unit testing. I ensured accurate functioning across varied test scenarios.

- **Multi-Threaded Chat Server/Client (Network Technologies):**

  I designed Java-based Chat Server and Client applications. I leveraged multi-threading to enable concurrent client connections on the Server.

- **Wordpress Site on AWS (Operating Systems & Cloud Computing):**

  I deployed a WordPress site on an AWS-hosted LAMP server, focusing on Ubuntu Linux. I employed the Elementor plugin extensively for layout and styling control.

- **Ionic Mobile App - Soccer Player & Quote Reader (Mobile App Development):**

  I created an Ionic app utilizing online APIs to display quotes on diverse topics. I also included a feature to retrieve information about soccer teams based on country, with filtering and sorting options.

- **Remote AWS Instance Access & Linux Excercises (Computer Architecture & Technology Convergence)**

  I setup and remotely accessed an AWS instance, installed Ubuntu Linux OS and learned tools and features of the OS with practical exercises including writing bash scripts in Vim to log output from various terminal commands.