

ANGEL CORONEL

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Education

University of Texas at El Paso (UTEP)

M.S. in Software Engineering, GPA: 3.83

Dec 2024

B.S. in Computer Science, Minor in Mathematics, GPA: 3.78

Experience

Software Engineering Intern

Summer 2023, Summer 2024

Northrop Grumman Corp – Space Systems Sector – Secret Security Clearance

- Assembled a software component using **Java** for a radar system (DARC) to store and format Kubernetes data through Rest APIs in a cloud database leveraging **Kafka Connect**, **Docker** and **ElasticSearch** (2024)
- Developed software functionalities using **Java** and **C++** for a radar system (PARCS) involving backend automation and usability leveraging **GitHub** and **Jira** for source control on 4 customer-based tickets/issues (2023)
- Engaged in Agile practices by participating in daily stand-up meetings and sprint planning sessions, gaining valuable insights into industry-standard practices, project management approaches and development of cross-functional teams in software development and integration, development operations and hardware development

Computer Science Teaching Assistant (TA)

Aug 2023 – Dec 2024

Department of Computer Science at UTEP

- Supported professors by providing instruction and guidance to 60 plus students per class including **Object-Oriented Programming** and **Data Structures & Algorithms** courses taught in **Java** and **Python**, respectively
- Presented self-made, topic-based reviews and helped students attain higher exam grades by strengthening their understanding of course material, convey correct exam expectations and address missing gaps in knowledge

Technical Programming Intern

Summer 2022

Air Force Research Lab (AFRL) – Minority Science and Engineering Improvement Program (MSEIP)

- Developed a Modeling and Simulation environment integrated with other dynamic gaming systems using **C#** leveraging **Unity** in support of wargaming activities as a member of a nine-person engineering team
- Assumed responsibility, as the intern lead for the aircraft management system, of designing and implementing UI elements and creating custom scripts to automate decisions for aircraft's status, pilots, and tech components

Projects

"Miner Fit" Gym App – Web Development

Spring 2024

Agile Software Engineering Graduate Course | Svelte, CSS, JavaScript, HTML, Firebase, Firestore, Git

- Developed a "workout builder" stylized form so a user can create a personalized workout routine using **Svelte**, **CSS**, **JS**, and **HTML** while managing data models uploaded to **Firebase** for data persistence with multiple users
- Designed and implemented a "workouts discovery" menu page so users are able to browse and subscribe to other user-made workout routines allowing for "coach" and "customer" roles while managing account authentication and status by leveraging **Firebase Authentication** and **Firestore Database**

Undergraduate Researcher – AI & ML Research

Jan 2022 – Dec 2023

Department of Computer Science at UTEP | Google Colab, Python, Pandas, Matplotlib

- Learned and participated in graduate-student led, research projects about machine learning, deep learning, and artificial intelligence involving optimization for neural networks, constraint solving, and interval computations

TechX Scholar

Spring 2022

Google Tech Exchange Program | Python

- Completed a semester of courses including Applied Data Structures taught in **python**, Product Management, and Careers in Tech taught by Googlers through a virtual academic program hosted by Google and my HSI (UTEP)

Skills

Technical: Python, Java, C++, HTML, CSS, Git, Agile, Scrum, Artificial Intelligence, Kubernetes

Interpersonal: Communication, Collaboration, Decision-making, Empathetic Listening, Analytical Thinking