

# NICOLAS AHN

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## EDUCATION

### University of the Pacific

Bachelor of Science in Computer Science, Minor in Data Science

GPA: 4.0

Relevant Courses:

- Data Structures
- Design and Analysis of Algorithms
- Application Development
- Artificial Intelligence
- Computer Systems and Networks
- Programming Languages

Stockton, CA

Aug 2020 - May 2024

## EXPERIENCE

### University of the Pacific

Research Assistant

Stockton, CA

Sep 2021 - Present

- Assist Professor in the study of Concurrent Audit Logging in Microservice-based applications
- Developed an audit logging template for a simple medical records system application using Java, InterProlog, and AspectJ to be used as an implementation model for the research paper
- Implemented an instrumentation tool that parses logging policies in JSON format and builds the audit logging template in Java-Spring Boot microservices with such policies.

## PROJECTS

### Buy/Sell Stocks AI Project *Python*

geneticAlgo-stocks

- Parsed data from the last 30 years of the SP 500 and implemented an AI to predict buying/selling stocks
- Implemented Genetic algorithms with various selection and crossover techniques

### Coordinate Classifier *Python*

Perceptron-Project

- Coded an Artificial Neural Network to categorize pairs of latitude and longitude coordinates to a continent or ocean

### Spotify Top Songs Creator *Python*

Spotify-Weekly-Top-Songs

- Python Script using the Spotify API to create a playlist with a User's short-term top songs and update it weekly
- Coded an algorithm that facilitates requesting user authorization from Spotify's OAuth2 Authorization Code Flow

### Dungeon Crawler Game Project *Java*

final-project-1

- Coded algorithm for parsing sprite sheets to easily render graphics and animations
- Implemented map collision system and refactored team project
- Gained in-depth experience working in a team, meeting deadlines, and documenting software design

## SKILLS

**Programming Languages:** Python, C++, C, Java, Bash

**Developer Tools:** Git, VS Code, Eclipse, Vim

**Operating Systems:** Windows, Linux

**Other:** HTML, CSS, JSON

## EXTRACURRICULAR

### Theta Tau *Professional Engineering Fraternity*

- New Member Educator

Jan 2022 - Apr 2022

- Guided and instructed potential new members in the New Member Education process

- Vice Regent

Apr 2022 - Present

- Supervised Chair Committees and updated Chapter Bylaws