# **Armanul Ambia**

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**GPA**: 4.0

#### **EDUCATION**

**B.S. Computer Science - Mathematics Minor** 

California State University - Fullerton

#### **WORK EXPERIENCE**

## **AMAZON** | Software Development Engineer (SDE) Intern

May 2022 - Aug 2022

**Expected Graduation Date:** May 2023

- Spearhead creation of A/B testing experiments in Amazon Alexa's Discovery Engine
- Create Java Software configuration for Alexa using dependency injection, AWS cloud tools, and Amazon internal tools
- Collaborate with external teams, QA engineers, project managers, and software development managers to **handle code deployment**, **uphold agile process**, **address blockers**, and prioritize tasks.
- Handle, route, and analyze traffic from millions of customers directly contributing to future development

# **SOUTHERN CALIFORNIA EDISON (SCE)** | Software Engineer Intern

May 2021 - Aug 2021

- Address SCE's data inaccuracy due to climate change, infrastructure degradation, and commercial development
- Direct the collection and extrapolation of 2020 data from SCE's Photovoltaic (PV) circuits
- Coordinate IT teams, electrical field engineers, and back-end developers to address recorded, circuit-specific anomalies
- Develop Python scripts using Pandas, NumPy, Matplotlib to run numerical, percentile, and reliability analysis based on PV activity
- Formulate a ten-year solar reliability forecast and facilitating SCE's transition to 100% renewable energy by 2045

#### NASA KENNEDY SPACE CENTER (KSC) | Software Engineer Intern

Jan 2021 - Apr 2021

- Redesign outdated graphic engine in NE-XS division directly impacting the launch of Artemis II in 2023
- Maintain high standards of readability, versatility, and data generation on firing room displays to prepare for rocket launches
- Engineer real-time graphic engine using open-sourced Java Swing and JavaFX libraries
- Present working display prototypes to highlight enhancements in display functionality, readability, speed, and efficiency

#### **PROJECTS**

STL Complexity Analysis	Document comparison of efficiency in Vectors, Maps, Binary Trees, Linked Lists
Sorting Visualizer	Visualize Bubble, Selection, Insertion, and Merge Sort Algorithms in SFML library.
<b>Personal Website</b>	Portfolio website showcasing academic, extracurricular, and career involvement
<b>TEDX CSUF Website</b>	Portfolio website showcasing academic, extracurricular, and career involvement
<b>Running Database</b>	Database created with polymorphic behavior for Cross Country Coach

### **LEADERSHIP**

## ASSOCIATION FOR COMPUTING MACHINERY (ACM) | Algo President

Aug 2021 - Present

- Led the largest computer science organization on campus including over 1000 computer science students
- Design and present engaging content focusing on data structures, algorithms, and interview preparation
- Adapt curriculum to students ranging from beginner coders to industry ready graduates

# **TEDX CSUF** | Vice President

Dec 2019 - Aug 2021

- Provide creative platform for CSUF students and faculty to encourage public speaking
- Host large-scale TEDx events bringing together students and professionals throughout Southern California

#### **SKILLS**

Programming Languages	Python, C++, Java, G11, H1ML, CSS, JS, SQL, PHP
Libraries	Pandas, Tkinter, SciPy, Pygame, Matplotlib, NumPy, SFML C++, MySQL, Log4j, Google
	Guice

**Development Tools** 

Microsoft Excel, R/R Studio, Eclipse, Visual Studio, Linux Terminal, Systems Tool Kit, SQL

Developer, AWS Lambda, AWS Cloudwatch, AWS Cloudformation, AWS EC2