

# Max Jeruss

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## Education

**Shiley-Marcos School of Engineering, University of San Diego**

**Expected May 2025**

B.S. Computer Science | GPA: 3.96

## Relevant Coursework

Object-Oriented Design and Programming    Advanced Computational Problem Modeling    Introduction to Computer Systems  
Programming Abstractions and Methodologies    Computational Problem Solving    Java Programming    Web Development

## Skills

- **Programming Languages: Proficient:** C, Java, Python **Familiar:** JavaScript, SolidJS, Tailwind CSS, HTML, R
- **Operating Systems:** Microsoft Windows, Linux, iOS/iPadOS
- **Development Environments:** VSCode, Eclipse, IntelliJ, VIM, VI, Google Colab
- **Additional Skills:** Top-down design, Agile and Scrum, Four Pillars of OOP, Debugging, Lean Six Sigma Green Belt, UML

## Projects

### **Algorithm Analysis**

**Fall 2023**

- Conducted a comprehensive analysis of algorithm performance in Java, evaluating time and space complexity to identify and implement optimizations, using automation, resulting in a significant improvement in efficiency.
- Applied advanced theoretical concepts in Java, including closed form, Big O notation, and data structure optimization, to enhance the scalability and performance of key algorithms.

### **Phone Directory**

**Fall 2023**

- Implemented a Java-based phone directory system applying key OOP principles, including abstraction, encapsulation, inheritance, and polymorphism, with a focus on effective class structures.
- Developed an interface and file handling system for efficient, secure, and scalable contact management, enabling easy information storage, retrieval, and data integrity.

### **Wordle Game**

**Spring 2023**

- Developed a Python-based Wordle game employing Tkinter and MVC principles to ensure clean, testable code.
- Created custom exceptions for streamlined error handling, ensuring uninterrupted gameplay.

## Experience

**Military and Veterans Program, University of San Diego, San Diego, CA**

**October 2023 - Present**

### — **Math/Computer Science Tutor**

- Enhanced veteran academic performance in math and computer science through customized tutoring based on an obsession with customer needs, strategic lesson planning, improving grades and concept comprehension.

**General Dynamics Information Technology(GDIT)/ACET, San Diego, CA**

**June 2020 - June 2021**

### — **Engineering Technician III/Lead Avionics Technician (Contract Acquired by ACET)**

- Troubleshoot technical issues in team settings with commitment to operation excellence, showcasing analytical skills and proficiency in technical schematics—a foundation for software architecture and design.
- Led 17 helicopter modifications, reflecting strong project management abilities and long-term planning relevant to managing large-scale software development projects.
- Managed detailed maintenance documentation and adhered to strict safety protocols, aligning with high standards in software quality assurance and coding practices.

**United States Navy, San Diego, CA**

**June 2015 - November 2019**

### — **Aviation Electrician Petty Officer Second Class**

- Specialized in repairing and manufacturing electronic equipment for H-60/MQ-8B aircraft, fulfilling roles as Quality Assurance Inspector to guarantee safety and prevent rework.
- Passionately led, trained, and qualified over 70 sailors as Work Center Supervisor, managing personnel, maintenance operations, and crucial programs including Tool Control, FOD, HAZMAT, Battery Safety, and ESD.