

# AEDYN SIMON

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## Skills

**Programming Languages:** Python, Java, C++, JavaScript, React.JS, HTML, CSS, SQL, PL/SQL Shell Scripting, JDBC SQL, MATLAB  
**Development Tools:** Git, GitHub, Amazon Web Services (AWS), Docker, Postman, Visual Studio Code IDE, Jupyter Notebook, Linux, Jamovi, Windows Remote Desktop, JSON Schema, APIs, RESTful APIs, Markdown  
**Development Methodologies:** Object-Oriented Programming, Test-Driven Dev, White-Box Testing, Black-Box Testing, JUnit Testing, Agile PM  
**Interpersonal:** Collaborative problem-solver with strong technical communication, adaptability, leadership, and teamwork skills

## Education

Bachelor of Science in **Computer Science** | Minor in **Music** | GPA – 3.400 **Colorado State University – Fort Collins, CO | May 2026**  
**Courses:** SW Eng, SW Dev, Algo & Thry, ML Found., Sys Sec, Comp Sys Found., Data Struct., Disc Struct., Lin Alg, Intro to Python/Java/C++  
**Certifications & Awards:** Earned the Seal of Bilingualism in Spanish and awarded the Green & Scholarship and Honors Scholarship

## Projects

- **Trip Planning Application** | Java Fall 2024
  - Collaborated with a team of 5 to develop a global trip-planning application with **Java**, using the **nearest neighbor's** algorithm
  - Acted as Scrum Master for some sprints, managing **AGILE** workflows, sprint backlogs, and progress tracking using GitHub
  - Conducted comprehensive testing, including unit tests with **JUnit** and API testing using **Postman** alongside the use of **Docker**
- **Personal Website Portfolio** | HTML, CSS, JavaScript Fall 2024
  - Designed and developed a responsive, user-friendly **front-end** application showcasing projects, skills, and achievements
  - Integrated EmailUS to enable seamless communication via a contact form for a dynamic and interactive experience
  - Ensured cross-browser compatibility and mobile responsiveness using **CSS** media queries and **JavaScript** event handling
- **Block & Stream Cipher** | Java Spring 2025
  - Implemented encryption and decryption **algorithms** using block and stream ciphers, ensuring **secure file handling** for plaintext and cipher text for **robust input validation** and **error handling** including file path verification and cipher mode selection
  - Designed **efficient XOR-based encryption**, block padding, and **swap-based transformations** for enhanced security
- **AI Image Generator** | HTML, CSS, JavaScript, Hugging Face API Spring 2025
  - Developed web-based AI image generation tool with **dynamic model selection**, allowing users simple text to image creation
  - Designed an **interactive UI with light/dark mode support**, a responsive gallery, and modern CSS for an optimized user experience
  - Integrated **asynchronous API handling** for efficient image processing, along with a **random prompt generator**, aspect ratio options, and image download functionality to enhance usability and flexibility

## Work Experience

**Service Desk/Technical Support Intern** December 2024 – Ongoing  
Colorado State University – Division of IT Fort Collins, CO

- Diagnose and resolve technical issues by leveraging troubleshooting tools and writing **basic scripts** to enhance support efficiency
- **Collaborate on IT projects** to develop automation tools, workflow optimizations, and system improvements to improve operations
- Hands-on experience in network diagnostics, system configurations, and coding for IT support tasks, while building technical customer service skills and solving complex technical issues

**Data Structures & Algorithms Teaching Assistant** December 2024 – Ongoing  
Colorado State University – Department of Computer Science Fort Collins, CO

- Leverage programming skills in **Java** to explain and demonstrate key **data structures** such as arrays, linked lists, stacks, queues, trees, and graphs while guiding students through the implementation of **recursive** and **iterative algorithms** to solve complex computational problems
- Apply strong technical communication and analytical **problem-solving** skills to assist with lab sessions by providing hands-on support, detailed **code reviews**, and constructive feedback to foster success in a collaborative and welcoming environment
- Develop instructional materials and sample code to clarify challenging concepts such as recursion, software testing, algorithms, etc.

**Software Development Intern** May 2022 – December 2024  
EA Simon Enterprises Denver, CO

- Assisted in the development and debugging of software applications, while contributing to multiple successful team projects
- Participated in **Scrum** methodologies, attending standups and sprint planning to enhance collaboration and productivity for the team
- Gained hands-on experience with software development skills: **Python**, **Java**, **GitHub**, **Docker**, and **object-oriented programming**

## Leadership & Activities

**Drummer** | Colorado State University Bands – Personal Bands

- Perform as drummer for multiple CSU jazz ensembles, and symphonic/concert bands, for various university events and performances
- Member of five local bands that play/perform regular shows across Fort Collins, Denver, and California, playing diverse musical genres

Association for Computing Machinery (**Treasurer**), DevNet, SASE, APACC, Ski & Snowboard Club Fall 2022 – Ongoing

Foster **Volunteer** [DDFL] – **1,200+** hours | **Volunteer** [Café 180] – **500+** hours Fall 2017 – Ongoing

Food Service Associate | CSU Housing & Dining Services | Fort Collins, CO August 2024 – December 2024

Event Services Coordinator | Pork Belly Ventures | Des Moines, IA July 2023 – August 2023

Bike Instructor | Pedal Heads | Denver, CO May 2020 – September 2020