

# ESMA ERDEM

**SOFTWARE ENGINEER** | Bangor, ME | 207-412-8936 | [esmaerdem94@gmail.com](mailto:esmaerdem94@gmail.com) | [Linkedin](#) | [Github](#) | [Portfolio](#)

## SUMMARY

Results-driven Software Engineer with advanced algorithmic skills, graduating with honors from a BS in Astronautical Engineering. Applied expertise to contribute to develop diverse projects including internships and a graduation project. Proven team player—cultivated exceptional communication skills and mentored peers through training processes. Proficient in software development using Python, JavaScript, and SQL. Committed to concise programming practices and continuous learning. Eager to contribute innovative solutions in aeronautical software, fueled by a passion for advancing technology.

## SKILLS

Programming Languages: **Python, JavaScript, Matlab** Web Development: **Flask, Node.js, React**; Version Control: **Git, GitHub**; Database Development: **SQL**; **Documentation and Testing, OOP, TDD, AWS, Shell Scripting**

## PROJECTS

**Book Chat** | [Book Chat Live](#) | [GitHub Repo](#)

*Nov 2023 – Dec 2023*

- Designed a feature-rich book discussion platform, centralizing book lovers and fostering dynamic interaction.
- Created an environment for users to live chat, browse books, write and read book reviews.
- Architected RESTful API using Node.js, SQL database and dynamic React frontend.
- Built a resilient SQL database schema with JSON Schema verification and parameterized database queries.
- Ensured platform robustness with extensive documentation, rigorous unit tests, and robust error handling.
- Enhanced user experience through real-time user interactions, efficient book and review filtering, improved performance with infinite scrolling, and built live chat connection with WebSockets.

**Wicked Acadia** | [Wicked Acadia Live](#) | [GitHub Repo](#)

*Apr 2023 – May 2023*

- Developed Acadia Nat. Park trip planner web app to promote Maine tourism and gather visitors under one platform.
- Created a user-friendly platform for discovering and engaging with scheduled events, activities, and main attractions.
- Designed a RESTful API in Flask using Python and PostgreSQL, with frontend Javascript for backend API connections.
- Enhanced reliability and ensured smooth performance with robust error handling and extensive unit and integration tests.
- Embraced Object Oriented Programming principles for code reusability and maintainability.
- Increased efficiency by caching data from the Acadia National Park API and implementing paginations.

**Weather Reminder App** | [GitHub Repo](#)

*Sept 2023*

- Developed a weather email reminder app for customized weather notifications on user location.
- Utilized web scraping using Python, BeautifulSoup library for weather data extraction and Geocoder for geolocation.

## PROFESSIONAL EXPERIENCE

**Sales Manager**, Cool As A Moose | Provincetown, MA

*Jan 2019 - Sept 2022*

- Achieved a 56% annual sales increase through effective customer service and strategic planning.
- Reduced system downtime by 20% by conducting regular point-of-sale system health checks.
- Coached new hires across multiple locations on operations, customer service, and leadership.
- Spearheaded initiatives to contribute to a major carnival hosting 90K people, driving substantial brand exposure, public recognition, and achieving a record-breaking 25% increase in daily sales, marking the highest revenue in a single day.

## EDUCATION & CERTIFICATIONS

**Springboard - Software Engineering Bootcamp** | Online

*Jan 2023 – Jan 2024*

**Skills:** Python, JavaScript, Flask, Node.js, Express, SQL, React, Git

- Developed full-stack applications, emphasizing maintainable and scalable application architecture and functionality.
- Cultivated a commitment to clean and concise programming practices, prioritizing code readability, main and quality.
- Designed and developed diverse web applications, incorporating various data structures to ensure efficiency.
- Fostered a practice of crafting clear documentation and conducting comprehensive testing for code reliability and maintainability.
- Applied Agile methodologies for efficient project development and gained proficiency in additional development tools and frameworks.

**Turkish Aeronautical Association University - BS Astronautical Engineering**, GPA: 3.29 | Turkey

*2012-2017*

**Relevant Coursework:** Algorithmic Computer Programming, Linear Algebra, Computational Methods, Control Systems

- Developed advanced algorithmic thinking skills through coursework and internships with a deep focus on aviation.
- Designed an Embedded System using Arduino, incorporating temperature, pressure, and GPS sensors, and configuring an antenna communication system and ground segment for a model-size satellite as graduation project.
- Developed an algorithm with MATLAB to visually represent heat transfer dynamics on a flat metal plate during internships.
- Cultivated the ability to work effectively both individually and in teams, taking on responsibilities during internships and graduation projects. Demonstrated initiative by proactively taking on tasks and self-teaching to accomplish goals.