ALAA HABIB

+393517207579
Alaa.habiiib@gmail.com
Bergen, Norway

Profile

I am a third-year Information Engineering student at the University of Padua, currently interning as a Full Stack Developer. I possess strong skills in programming languages including Python, C++, and Java, along with extensive experience in web technologies such as React and Next.js. I have successfully developed various projects, such as flight booking systems and control systems using MATLAB. I am eager to further apply my skills in web development and expand my experience within the tech industry. My passion for innovative problem-solving and commitment to continuous learning make me a valuable asset in any software development environment.

EDUCATION

- **University of Padua, Padua, Italy**

Bachelor of Information Engineering | October 2021 – 2025

- **University of Bergen, Bergen, Norway**

Exchange Program | August – December 2024

My coursework covers a wide range of topics, including Signals and Systems, Machine Learning, Control Systems Design, Web Development, Signal Processing, Operating Systems, Database Management Systems, Networking (TCP/UDP, IP Address Configuration), Cyber Security, Electronics, Electromagnetism, Electric Circuits, Data Structures and Algorithms, Algorithms, Internet & Multimedia, Telecommunications, and Computer Science.

EXPERIENCE

FULL STACK INTERN, FLOWERWORK COMPANY

Stockholm, Sweden (Remote) | August 2024 – Ongoing

- As a full stack intern, I am responsible for developing and enhancing key features, including creating chat functionalities, improving the user interface, and building administrative panels. Additionally, I have implemented user authentication systems, such as sign-up and log-in workflows, to enhance the overall functionality and user experience of the platform

SKILLS

- Programming Languages: Python, C++, Java
- Web Development: React, Next.js, HTML, CSS, JavaScript
- Networking: TCP/UDP, IP Address Configuration, Ping, TraceRoute, ARP, Routing
- Software Tools: MATLAB, Simulink, Kathara, IPERF
- Database Management: SQL, relational database concepts
- Version Control: Git, GitHub
- Control Systems: MATLAB/Simulink for DC motor and inverted pendulum
- Image Processing: Spatial filtering, Fourier transform, low-pass and high-pass filtering
- Cybersecurity: Network security fundamentals, Linux networking projects
- Project Management: Agile methodologies, Jira, Trello
- Soft Skills: Problem-solving, teamwork, communication, time management, adaptability

LANGUAGES

- ENGLISH: NATIVE
- ARABIC: NATIVE
- ITALIAN: INTERMEDIATE
- TURKISH: NATIVE

PROJECTS

Project Name : GNSS Localization Using Machine Learning

- Investigating new techniques for GNSS localization using machine learning approaches.

- Differentiated from previous work by employing unique models and analyzing new data sets.

- Task Management Dashboard Frontend
- dashboard for real-time data visualization using React.
- Built a task management tool using React and Drag-and-Drop functionality to enable users to create, assign, and manage tasks.
- Designed and developed a personal portfolio using HTML, CSS, and JavaScript. Showcased projects and work experiences, and integrated an interactive contact form.
- Designed a Inverted Pendulum Balancing on a Moving Cart.
- DC Motor Position Control.
- Cinema booking system.
- Built a drag-and-drop task management interface using React and Next.js
- Implemented a task assignment feature to optimize team collaboration.
- Built a real time chat app.
- SingUp/Login

MTALAB

- The design of two control systems in MATLAB/Simulink. The first is the control system for an inverted pendulum. The second is the control system of a DC motors.
- Socket Programming
- Image processing functions
- Spatial filtering
- Smoothing filters
- Sharpening filters
- Combination of spatial enhancements methods
- Fourier transform
- Filtering in the transform domain
- Low-Pass filtering
- High-Pass filtering

LINUX :

- The design of two control systems in MATLAB/Simulink. The first is the control system for an inverted pendulum. The second is the control system of a DC motors.
- Socket Programming
- Image processing functions
- Spatial filtering
- Smoothing filters
- Sharpening filters
- Combination of spatial enhancements methods
- Fourier transform
- Filtering in the transform domain
- Low-Pass filtering
- High-Pass filtering