Faramarz Aboutalebi

 github.com/   **PersonalWebsite**   linkedin.com/   Fara@knights.ucf.edu

EDUCATION

High School Math and Physics Diploma — 2015

Solid State Physics Bachelor/Graduated — July 2020
Bu-Ali Sina University

Computer Science Undergraduate — August 2021-Current
University of Central Florida — *UCF GPA: 3.561/4.0*

ACHIEVEMENTS

Awards: Benefited received a scholarship from the **Momeni Foundation** (2x), Certified Premium Deli Professional by **Boar's Head**.

SKILLS

Languages: C/C++, Python, Java, Assembly Language, JavaScript, HTML, CSS, React, Vite, LaTeX.
Tools: Git/GitHub, Unix Shell, VS Code, PyCharm/IDEA, Eclipse, Android studio, Google colab, and Xcode.

PROJECTS

Personal Website | *React, JavaScript, Vite, CSS, GitHub Pages, Git, Unix Shell, VS Code* — Jan. 2024 - Present

- View the project on the GitHub.
- Developed a personal website to showcase my portfolio and skills in web development.
- Implemented the site using React and Vite, demonstrating proficiency in modern JavaScript frameworks and build tools.
- Designed a responsive and user-friendly interface, with a focus on clean aesthetics and ease of navigation.
- Integrated a dynamic content update mechanism using React's state management and lifecycle methods.
- Successfully deployed the website using GitHub Pages, gaining practical experience in website hosting and deployment.
- Managed the project using Git, demonstrating skills in version control and collaborative development.

Software System - Compiler Project | *C, Assembly Language, Git, Unix Shell, VS Code* — Aug 2023 – Nov 2023

- Developed a comprehensive compiler for the PL/0 programming language, including a virtual machine, lexical analyzer, recursive descent parser, and advanced parser with procedural constructs:
- Implemented a P-machine to execute PL/0 assembly code, featuring a segmented process address space for instructions and data. ReadMe
- Created a lexical analyzer in HW2 to tokenize PL/0 source code and generate lexeme tables. ReadMe
- Developed a recursive descent parser in HW3 to analyze PL/0 program syntax, generate intermediate code, and integrate with the lexical analyzer. ReadMe
- Enhanced the parser in HW4 to support additional grammatical constructs like procedures and calls, refining syntax error detection and reporting. ReadMe

EXPERIENCE

Information Technology Instructor - Intern | *Valencia College, FL*   June. 2023 – Aug. 2023

- Delivered an 8-week IT program focused on JavaScript, HTML, and CSS.
- Conducted interactive classes, designed self-paced activities, and supported students in final projects.

Computer Science I undergraduate teaching assistant | *UCF, FL*   Jan. 2023 – May 2023

- Responsible for conducting lab exams, teaching, and solving problems as the lab instructor.
- Grading codes, quizzes, and exams submitted by students.
- Holding office hours to respond to students' questions and help them with code debugging.

Introduction to Programming with C undergraduate teaching assistant | *UCF, FL*   Aug. 2022 – Dec.2022

- Responsible for conducting lab exams, teaching, and solving problems as the lab instructor.
- Grading codes, quizzes, and exams submitted by students.
- Holding office hours to respond to students' questions and help them with code debugging.