

ZANE MIKULA

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Objective

Highly motivated recent graduate with a Bachelor of Applied Science Degree in Computing Technologies and Software Development. Proficient in JavaScript, Java, and HTML/CSS with experience using Python with various libraries. Excited to leverage academic experience and acquired technical skills to be a part of impactful and innovative projects that help others.

Technical Skills

- Java
- IntelliJ
- VSCode
- JavaScript
- HTML/CSS
- Python
- Spring Boot
- Node.js
- React
- Next.js
- Axios
- Tailwindcss
- MySQL and Google Firebase
- AWS
- Git
- GitHub
- RESTful APIs
- Confluence
- Microsoft Teams

Academic Projects

Sabermetrics Web Application

- Designed, documented, and developed a web application to calculate personal and team advanced baseball statistics (Sabermetrics)
- Used Java, Spring Boot, and MySQL for backend Development
- Used React, HTML/CSS, and Axios for frontend development
- Implemented user authentication to ensure data persistence that was account-bound and site wide

College Football Data Analysis

- Developed a data collection and data manipulation script to analyze the University of Colorado's overall performance
- Installed data collection scripts to free tier AWS EC2 t2.micro instance for automated data collection weekly
- Used Python libraries in these scripts to query my personal collegefootballdata.com API
- Queried data was then organized into JSON files for each week collected
- JSON file data was then visualized into bar charts, scatter plots, and line graphs to create conclusions on overall performance

VCentals Web Application

- Active contributor and developer of a multi-semester Senior Capstone Project for VCentals (a non-profit program at Valencia College)
- Developed the web application for VCentals to streamline temperature data entry and management for VCentals buildings, freezers, and refrigerators
- Developed web application with team members using React and embedded a NoSQL Firebase for data persistence

Personal Portfolio Website

- Designed and developed my own professional portfolio website using React to showcase my current tech stack and the projects to prove it
- Implemented a responsive but simple and appealing UI for the user to have a comfortable user experience
- Developed unique features like a JavaScript logo loading page animation by using CSS keyframes and Sass nesting
- Various interactive elements to provide insight on projects I have completed or still working on

NCAA Division 1 Baseball Dashboard: Top Individual Stats and Analytics

- Fully developed full stack application that ethically scrapes ncaa.com using the BeautifulSoup Python library for individual baseball statistics and display the stats in charts and graphs
- Once specific data was scraped successfully, I created FastAPIs that would scrape separate pages asynchronously and then store the data scraped into each stats collection on my Firestore DB
- Used Next.js and Tailwindcss to develop and design frontend while using the Chart.js library to create multiple bar graphs and scatter plots

Achievements

- Designed and developed a full-stack web application using Java, SQL, JavaScript, and HTML/CSS
- Helped collaborate in VCentals group project while developing web application and VCentals Firestore (VCentals is a non-profit food and essentials pantry)
- Fully developed a personal portfolio website demonstrating all of my technical capabilities
- Proficiently used React to develop dynamic user interfaces
- Obtained hands-on experience with Spring Boot to develop RESTful APIs
- Developing concept alike UberEats application where users can use a functional web application to order food and create an account
- Created multiple technical documents and professional demo videos for customers and instructors
- Obtained hands-on experience learning Python and various libraries to query APIs and manipulate the queried data
- Obtained hands-on experience with GitHub and Git commands while developing personal projects and VCentals projects
- Used branching in project repositories while also creating pull requests and approving pull requests with VCentals Web Development Team
- Gained experience in database management with SQL and NoSQL
- Hands on experience with Linux OS, basic Bash scripting, and commands
- Basic knowledge of Windows OS commands in PowerShell
- Organized Technical Documentation, Quality Analysis, and Project Planning in tools like Word, Excel, Confluence, Teams, and GitHub

Education

Valencia College - Orlando, FL

Bachelor of Applied Science Degree in Computing Technologies and Software Development

December 2024

- **Relevant Coursework:** Software Development and Engineering, Project Management, Technical Writing and Documentation, Data Analysis, Customer Support
- Developed technical problem-solving and analytical skills through personal and group projects

Valencia College - Orlando, FL

Associate of Arts Degree

August 2021 - May 2023

- **Relevant Coursework:** Foundational Programming, Network Essentials, Discrete Math, Macroeconomics, Database Management Systems, Public Speaking, Technical Writing
- Created a foundation in professional communication, logical reasoning, and technical knowledge

Lesley University - Cambridge, MA

Pursued Bachelor of Arts Degree in Psychology

August 2019 - May 2021

- **Relevant Coursework:** Abnormal Psychology, Sport Psychology, Foundations of Helping Professions, Cross-Cultural Psychology, Genetics and Ethics, Developmental Psychology
- **Extracurricular:** Member of the Lesley University Baseball Team, where I demonstrated teamwork, leadership, and hard-work to improve myself and those around me
- Developed knowledge on human behavior, problem-solving, interpersonal communication with others through coursework and projects