

# ARJAN VELOVIC

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## FULL STACK SOFTWARE ENGINEER

Ambitious software engineer with five years of aerospace experience, driven by a passion for growth and learning. Expertise in full-stack development, specializing in Python, JavaScript, React, Flask and SQL for robust and scalable web applications. Eager to apply engineering expertise and coding skills to effectively contribute to the software development arena.

## SKILLS

**Languages:** Python | JavaScript | Typescript | C++ | SQL | HTML/CSS | MATLAB | VBA  
**Frameworks/Databases:** React | Flask | Django | PostgreSQL | SQLite | MySQL | MongoDB  
**Tools:** GitHub | Bootstrap | TailwindCSS | Render | Netlify | Amazon Web Services | Firebase

## PROJECTS

### Specialized Web Application

- Utilizes a React TypeScript frontend and a Flask Python backend along with a PostgreSQL database.
- Managing user operations, authentication, cart functionalities, error handling, and secure payments.
- Ensuring performance and security, the webapp delivers a seamless shopping experience, demonstrating proficiency in modern web development technologies.

[Live Demo](#)   [GitHub](#)

### Bidding Bazaar

- An auction web app powered by Flask, leveraging Python's capabilities for robust user interaction.
- Users can create accounts, list items, place bids, add watchlists and manage their profiles seamlessly.
- Behind the scenes, Flask handles authentication, session management, and database integration, ensuring a smooth user experience.

[Live Demo](#)   [GitHub](#)

## WORK EXPERIENCE

### Software Engineer Trainee | Coding Temple | Oct 2023 – Present

- Developing backend applications and RESTful APIs with Python Flask, emphasizing object-oriented programming, PostgreSQL database management, and advanced data structures for robust system architecture.
- Designing front-end web applications with TypeScript React, prioritizing CRUD API integration and modern UI/UX principles with Tailwind and Bootstrap CSS to deliver scalable and responsive user experiences.
- Tech Stack: Python | JavaScript | Typescript | Flask | React | PostgreSQL | SQLite | TailwindCSS | Bootstrap

### Airframe Design Engineer | Lockheed Martin Sikorsky, Stratford, CT | Nov 2020 – Present

- Developing MATLAB scripts for stress analysis on flight-critical airframe components, calculating maximum loads and identifying stress concentration areas to ensure adherence to safety tolerances.
- Designing Visual Basic for Applications (VBA) scripts within Microsoft Excel to automate aircraft weight configurations in mass properties spreadsheets, ensuring accuracy and efficiency in the process.
- Managing end-to-end design lifecycle of airframe components encompassing 3D CAD modeling, stress analysis, drafting, tolerancing, prototyping, testing, and installation ensuring comprehensive engineering solutions.
- Ensuring alignment of new products with program requirements through effective vendor collaboration and supervision of the products integration within the program's supply chain.

### Mechanical Engineer Asc. | Lockheed Martin Skunkworks, Palmdale, CA | Jul 2019 – Oct 2020

- Executed unit tests on essential Python code for flight control systems, reported findings, and collaborated with engineers to resolve bugs for mission-critical software.
- Developed detailed designs of mechanical structures adhering to structural and aerodynamic guidelines using CAD.
- Prepared and reviewed statements of work (SOWs), bills of material (BOMs), supplier document requirement lists (SDRLs), and other essential supplier contract management documentation.
- Coordinated sub-system schedules to ensure an optimized engineering, procurement, and manufacturing workflow.

## EDUCATION

### Full-Stack Software Engineer Bootcamp | Coding Temple | March 2024

### MS in Mechanical Engineering | Georgia Institute of Technology | Summer 2022

Highest Honors | GPA: 3.9/4.0

### BS in Mechanical Engineering | CUNY, The City College of New York | Fall 2018

Cum Laude Honors | Minor in Mathematics | GPA: 3.5/4.0