

Adil Shirinov

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Education

Georgia Institute of Technology – Aerospace Engineering B.S. and M.S.

Aug 2020 – May 2025

GPA: 3.87 B.S. | 3.88 M.S.

AWS Solutions Architect – Certification In Progress

Sep 2025

Skills

Languages: **Python, SQL, C#/C++, JavaScript, MATLAB, HTML, CSS**
Frameworks: **Scikit-Learn, NumPy, Pandas, PyTecplot, Plotly, Next.js, React, Flask, Dash**
Tools: **Docker, Git, Linux, AWS (EC2), MySQL, MongoDB, Ansys, Converge CFD, JIRA**
Other: **Agile, Server Administration, Networks, Automation, Fluent in English, Russian, Japanese**

Experience

CPM Supply And Services Inc. – Chief Technology Officer (Part Time)

Jun 2025 – Current

- Architected remote **Linux** server infrastructure and configured network gateways
- Deployed **NextJS** based CRM system using **MongoDB** backend with **Prisma** through **Docker**
- Automated backups through **Cron** and deployed a **NAS** for internal files
- Delivered comprehensive **IT** services to 22 employees

Ben T. Zinn Combustion Laboratory – Automation Architect

Sep 2022 – May 2025

- Developed **Python** automation framework for Computational Fluid Dynamics design optimization
- Built a comprehensive WebApp using **Flask** and Plotly with **MySQL** backend for case monitoring
- Created **scripts** for parametric design studies, automated mesh generation and post-processing
- Accelerated design convergence by 15% by using **Scikit-Learn** surrogate models for turbulence

Georgia Tech – Teaching Assistant

Jan 2023 – May 2023

- Produced learning materials and delivered lectures on Dynamics course
- Used **effective communication** to bridge knowledge gaps for 71 students

Projects

Gringotts – Financial Analytics Application

May 2025 – Jul 2025

- Developed full-stack expense tracking WebApp using **Python, Dash, and MySQL**
- Created **connection pool** management system for load balancing across CPU cores
- Wrote a bank statement import functionality and predictive analytics for net worth forecasting
- Designed interactive dashboards with Plotly for multi-level visualization and performance analysis

Kronos – Digital Twin, Team Lead

Aug 2023 – May 2024

- Led a team of 10 engineers to win **1st place** at the AIAA Venus Exploration Fall Capstone competition
- Created a high-fidelity Digital Twin for an aircraft landing on Venus simulations
- Implemented real-time trajectory prediction using **Python** and **C++** with 3D visualization
- Utilized **Agile** methodology and **Gantt Chart** for project management and stakeholder coordination

EngineX – Rocket Engine Optimizer

Feb 2025

- Deployed an **optimization** platform using OpenMDAO and **Scikit-Learn** surrogate models for rocket engine design
- Integrated Cantera for combustion calculations with IPOPT optimizer for constraint handling
- Achieved 15% improvement in specific impulse through automated **Python** optimization

CV Navigation – Autonomous Aircraft System

Mar 2022 – Apr 2022

- Implemented OpenCV C++ algorithm for automated target detection and landing in autonomous gliders
- Integrated Pixhawk autopilot with LiDAR sensor for precise altitude determination
- Optimized flight control software for autonomous glider deployment and recovery

RoboTech Hackathon – Team Lead

Apr 2022

- Led team of 3 to develop autonomous oceanic microplastic cleaning robot
- Used a short-term **Agile** strategy to create a feasible low-cost design in 36 hours
- Won 2nd place overall and 'Most Creative Project' award