

ABDULLAH DAJANI

SOFTWARE ENGINEER

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SUMMARY

As a full-stack developer with a flair for design and art, I build interactive and user-friendly software solutions. I'm particularly passionate in solving problems using machine learning, data analysis, and website applications.

EDUCATION

Bachelor of Science in Computer Engineering May 2027
Purdue University, West Lafayette, IN, USA

- Cumulative GPA: 3.48
- Graphic designer at Saudi Student Association

EXPERIENCE

Freelancer • Software Developer Jun 2024 - Present

- Building and maintaining critical components to construct a web application from back end to the front end.

PROJECT

Credit Card Verification API Jun 2024

- Developed a Credit Card verification API with flask using Luhn's algorithm.
- API checks for card type (VISA, AMEX, MASTERCARD) and stores an encrypted credit card number (for extra safety) in an SQLite database.
- Continuous Javascript data fetching to ensure seamless integration with front-end apps.

Tire Performance Analysis Feb - Apr 2024

- Analyzed summer, winter, and all-season tire performance for SUVs, Sedans, and Hatchbacks.
- Engineered an algorithm using MATLAB to reduce noise, systematic, and random errors, achieving a 4.33% error rate.
- Authored a comprehensive technical report, including detailed MATLAB graphs, for a tire company.

Peanut Butter Lid-Integrated Mixer Feb - Apr 2024

- Engineered a lid-stirrer combo, reducing the need for extra utensils.
- Multi-gear system in the lid enhanced mixing by over 60%.
- Forfeited a patent (hackathon rules) & won \$16,000.

EXTRACURRICULARS

- Certifications:** CS50 x Harvard, Intro to Machine Learning x Duke.
- Awards/Honors:** Engineering Hackathon winner. Dean's List. Recipient of 3 college scholarships, KAUST's, Saudi Basic Industries Corporation (SABIC)'s, and the Saudi Arabian Government.
- Volunteering:** Founder of daily-reminders educational nonprofit; helped +1500 high school students.
- Scout Patrol Leader. Took the lead for over 170 volunteering hours in community driven initiatives.

TECHNICAL SKILLS

Languages: C, Python, Matlab, Javascript.
Technologies: SQLite, Git, Flask, Tailwind CSS, HTML5, SEO, PyTorch (machine learning), API, jinja