

# 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.

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### 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

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### EXPERIENCE

#### Freelancer • Software Developer

Jun 2024 - Present

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

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### 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

May - Jun 2022

- 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.

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### 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.

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### TECHNICAL SKILLS

Languages:

C, Python, Matlab, Javascript.

Technologies:

SQLite, Git, Flask, Tailwind CSS, HTML5, SEO, PyTorch (machine learning), API, jinja