

Dia Saleh

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Summary

Experienced software engineer with a proven track record of architecting and delivering scalable, high-performance platforms. Lead developer behind Boober, creating a robust, service-oriented infrastructure from the ground up, including payment systems, data migration, and API development. Known for adaptability, problem-solving, and a collaborative approach to aligning technical solutions with business goals.

Experience

FounderTherapy, Software Engineer (*June 2018 – Present*)

- **Boober-Inc App**

As **Project Lead**, I designed and developed a scalable, service-oriented platform connecting users to on-demand providers, integrating a secure payment system and ensuring a seamless user experience.

- **System Redesign and Automation:** Designed and built Boober's **Django-based platform** in Q4 2020, replacing the legacy **WordPress and Salesforce system**. Automated critical flows such as **onboarding, scheduling, and payments**, driving a **124% year-over-year growth in gross volume** by Q4 2021. By the end of 2022, the platform had achieved over **358% growth in gross volume** compared to the previous system.
- **Data Migration:** Managed the seamless migration of critical data from Salesforce to the new platform, ensuring data integrity and minimizing downtime.
- **Payment System Engineering:** Built a secure payment solution with Stripe integration, leveraging Stripe APIs and Stripe JS to develop a custom checkout process. Implemented automated provider payouts, ensuring seamless and secure financial transactions for users.
- **UI/UX Design Collaboration:** Worked closely with the product team and clients to design and implement effective UI/UX solutions, enhancing usability and user engagement.
- **Client Collaboration:** Partnered with stakeholders to align technical solutions with business goals and deliver a tailored platform.

- **LucidGreen**

- **Automated Testing Development:** Led the design and implementation of automated tests using **Playwright**, streamlining feature validation and regression testing. **Reduced manual testing effort**, saving time and ensuring consistent system reliability after updates.
- **CI/CD Integration:** Automated test execution and reporting via Heroku and Slack, enabling **proactive issue detection** and improving system stability.
- **LIMS Integration Leadership:** Led the integration of a Laboratory Information Management System (LIMS) to streamline the collection and management of lab analysis data for manufactured batches, enhancing data accuracy, compliance, and operational efficiency for client processes.

- **DomainSkate**

- **API Redesign:** Redesigned **legacy APIs** into a **RESTful architecture** and developed new APIs to standardize the system, enhance **maintainability**, and support future **scalability**.

- **The Donor App (V2 Development)**

Developed the second version of a Django-based platform connecting patients with organ donors via social networks.

- Upgraded to the latest **Python** and **Django** versions for improved performance and security.
- Redesigned the patient dashboard with **UI/UX enhancements** and added **view/share statistics**.
- Created a customized **social media sharing feature** for Facebook, Twitter, and Messenger.
- Built an **SMS messaging system** to streamline patient-donor communication.

Technologies

Backend: Django, Python, SQL, PHP, Laravel, Java

Frontend: React.js, Flutter (mobile), Bootstrap, CSS, Material Design, JQuery, JavaScript, TypeScript

Tools & Platforms: Django RQ, Redis, Stripe, Heroku, AWS, Google Cloud Platform, Git, GitHub, CircleCI, Docker, Kubernetes, Sentry, Twilio, Arduino, GA, GTM, PostgreSQL, Nginx, Apache

Testing: Selenium, PyTest, Unittest, Playwright

Education

An-Najah National University, Bachelor in Computer Engineering (2013 - 2018)

University Projects

- **Era Identification of Arabic Text Using Stylometric Features (2017)** Developed a system using machine learning and NLP to predict the composition year of Arabic texts. Utilized Support Vector Machines (SVM) for predictive modeling.
- **SWA3ED Startup Website (2017)** Designed a platform connecting volunteers with institutions, using Laravel, MySQL, and JavaScript technologies.
- **Robot Learns to Walk (2018)** Built a robotics system addressing movement challenges, enabling fault tolerance and adaptive balance recovery through trial and error. Developed modular logic adaptable to various robot structures.

Volunteering

- IEEE member at An-Najah National University Student Branch since 2014
- Built a website for a local initiative
- Volunteer at Nablus Tech Meetups
- Provided C++ lessons to students

References

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