

# Waleed Khalid Alharbi

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## SUMMARY

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Final-year Software Engineering student at King Saud University with a backend-leaning full-stack skill set. Comfortable building with Node.js, Express, and TypeScript on the backend, and shipping frontend features in React and Next.js. Hands-on experience designing APIs, modeling databases, and deploying on Supabase, Firebase, and Vercel. Open to backend and full-stack roles where I can take ownership of meaningful work.

## SKILLS

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**Languages:** JavaScript, TypeScript, Java, SQL

**Frontend:** React, Next.js, Tailwind CSS, shadcn/ui

**Backend:** Node.js, Express, REST APIs

**Databases:** PostgreSQL, MySQL, MongoDB

**Tools:** MS Office (Word, Excel, PowerPoint), Git, Jira, Swagger, Postman

## EDUCATION

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**King Saud University (KSU)**, Riyadh, Saudi Arabia

*Sep 2022 – Aug 2026*

**B.Sc. in Software Engineering**

Relevant Courses: Web Application Development, Operating Systems, Software Security, Web Advanced Applications

## EXPERIENCE

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- **Software Engineering Intern – VRTX**

*Jan 2026 – Feb 2026*

Owned the end-to-end delivery of Custom Dev Portal V1, independently designing and building both frontend and backend, then presenting the final product to the team. Operated within a Scrum framework with two-week sprints, daily standups, and retrospectives. Integrated Tolgee into the portal so non-engineers could update content in real time, removing engineering from the content update loop and shortening the change cycle for the team. Led end-to-end API quality assurance: performed gap analysis between Swagger documentation and actual API behavior, surfaced 7+ critical defects before release, and restructured the documentation by use case to improve partner integration clarity.

## PROJECTS

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- **ClassBond – AI-Driven Platform for Real-Time Classroom Feedback** *React, Node.js, Express, Firebase*

Contributed to a platform addressing the lack of real-time signal on student understanding during lectures. Delivered the product over 4 sprints, with adoption reaching 80+ users across 50+ live university lectures. As full-stack developer, built material management, a slide viewer with prof-sync and free-navigation modes, mid-session material switching, and discussion forums.

 [ClassBond.web.app](https://ClassBond.web.app)

- **SmartSchedule – Automated University Scheduling Platform**

*Next.js, Supabase, TypeScript*

Designed a shared scheduling workflow for multiple departments that previously coordinated through scattered files. Defined role-based access for students and faculty and added version control so coordinators could track every change and roll back when needed.

 [SmartSchedule.xyz](https://SmartSchedule.xyz)

- **Secure Auth System – Software Security Project**

*Node.js, Express, OAuth2.0, WebAuthn*

Conducted threat modeling and applied defense-in-depth principles across the session lifecycle to deliver a passwordless authentication flow combining Google OAuth2 with WebAuthn for biometric and hardware-key login.

 [github.com/waleedkhalid/SWE314\\_Assignments](https://github.com/waleedkhalid/SWE314_Assignments)

- **KSU Calendar – University Academic Calendar**

*HTML, CSS, JavaScript, GitHub Actions*

Built a responsive calendar for KSU students and staff to track academic dates, with automated deployment via GitHub Actions and client-side persistence using localStorage.

 [Live Site](#) —  [GitHub](#)