

BEGÜM ALAKUŞ

Full-Stack Mobile Developer | React Native, Node.js, AI Integration

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SUMMARY

Computer Engineering graduate with hands-on experience in mobile application development and full-stack software engineering. Currently an intern at Eterna Teknoloji, developing React Native applications with TypeScript, REST API integration, Node.js and Express backend services, and PostgreSQL-based database design. Also experienced in building AI-powered application features and developing computer vision projects using Python, OpenCV, and YOLOv8. Seeking to contribute to a software engineering team where I can build reliable, scalable applications across the mobile and backend layers.

EDUCATION

Zonguldak Bülent Ecevit University | B.Sc. in Computer Engineering

Graduation: June 2026

EXPERIENCE

Eterna Teknoloji | Mobile Application Developer Intern

August 2026 – Present

Mersin, Türkiye

- Built the Pixel Art Challenge app from scratch with React Native, TypeScript, and Expo SDK 57, including authentication, a pixel editor, daily challenge and voting modules, and an automated challenge cycle with Firebase Cloud Functions.
- Integrated the Gemini API on the server side to add AI-generated jury comments and daily theme generation.
- Tested the Beatify app (live on the App Store) module by module; documented and verified reported issues and worked with the team on fixes.
- Built a pipeline that generates icons, banners, and square images for 8,228 sectors in the Lipyum app, using Iconify and Pexels APIs, relevance scoring, and a multi-level sector tree.
- Developed the frontend of a confidential AI-assisted skincare app and designed its screens in Figma.

Speedsoft Yazılım | Software Developer Intern

July 2025 – September 2025

- Developed modular, reusable React components for a financial management platform.
- Contributed to React Native UI and state management during two-week Agile/Scrum sprints.
- Performed end-to-end testing of a live web-based finance platform and contributed to fixing identified bugs.

PROJECTS

OwnWay: AI-Powered Career and Academic Decision Support System | Node.js, Express, PostgreSQL, Prisma

- TÜBİTAK 2209-A funded graduation project with a 4-member team. Backend developer and system architect: built REST APIs and the PostgreSQL data model, and coordinated team work.

TileArt Vision: Turkish Tile Motif Detection | Python, YOLOv8, Streamlit

- 5-member team project. Trained a YOLOv8n model on an open dataset for 4 classes and built a Streamlit interface.

ColorVision Enhancer: Color Vision Deficiency Support | Python, OpenCV, NumPy, scikit-learn

- Implemented deuteranopia simulation and K-Means color simplification (MIT-licensed open-source project).

Opportunity Radar: Job Tracking Bot | Python, GitHub Actions, Telegram Bot API

- Built a bot running on GitHub Actions that filters job postings by my criteria and sends matches twice a day via Telegram with direct links. Maintains a pool of 2,000+ companies for ongoing application targeting.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL, PHP

Mobile & Web: React Native, Expo, Expo Router, React, Next.js, Zustand, Redux

Backend & Data: Node.js, Express, REST API, PostgreSQL, Prisma, MongoDB, Firebase Auth, Firestore, Cloud Functions

AI & Computer Vision: YOLOv8, OpenCV, NumPy, scikit-learn, Streamlit

Tools: Git, GitHub, Figma, Agile/Scrum

Language: English (B1)

COMMUNITY & VOLUNTEERING

GDG Zonguldak | Sponsorship Team Lead

October 2025 – Present

- Managed sponsorship and funding for a 100+ attendee technology summit and took part in event organization.

GDG on Campus BEUN | Sponsorship Team Lead

October 2023 – June 2024

- Established sponsorship partnerships with 10+ companies, organized a 300+ attendee event, and delivered Git and GitHub training to 70+ students.

BPW İstanbul | Mentee

December 2025 – June 2026

- Took part in a gender-sensitive mentorship program as a mentee and completed the six-month mentorship process.

BEÜN Genç TEMA | Social Media Designer

October 2024 – October 2025

BEU CYBER | Core Team Member

October 2022 – January 2023