

Akin Aksay

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EDUCATION

Rutgers University

Sep. 2020 – May 2024

B.S. in Computer Science, Minor Economics | Honors Scholar | GPA: 3.63

New Brunswick, NJ

EXPERIENCE

Full Stack Developer

Oct. 2024 – June 2025

Bunchful Enterprise

New York, NY

- Deployed AI chat systems (Gemini + LlamaIndex RAG), boosting automated support resolution from **28% to 72%** and saving **20+ hrs/week** in manual support workload.
- Contributed to a team-led rebuild of the Next.js + GraphQL platform, optimizing API performance and reducing page load times by **45%**, which improved new user onboarding completion by **18%**.
- Designed a multi-agent workflow automation engine using FastAPI + groq models, automating repetitive tasks across teams and enabling the ops staff to handle **2x more workflow requests daily**.

Web Developer Intern

July 2024 – Oct. 2024

Bunchful Enterprise

New York, NY

- Migrated the company website from WordPress to Next.js (SSR + ISR), optimizing API calls and reducing TTFB by **50%**, which increased organic traffic by **32%**.
- Built internal dashboards for reporting and team management using React + Redux + Google APIs, enabling **10+ staff** to onboard faster and cut internal workflow times by **25%**.
- Enhanced frontend performance with code-splitting and lazy loading, improving Core Web Vitals by **30%** and contributing to a **12%** increase in paid-plan conversions.

Software Engineer Intern

June 2023 – Aug. 2023

Century 21

Ankara, Turkey

- Developed Node.js microservices supporting **30% more concurrent traffic**, enabling the platform to onboard **12 new enterprise clients** without performance degradation.
- Implemented CI/CD pipelines with GitHub Actions and Kubernetes, reducing deployment failures from **18% to 3%** and shortening release cycles from multiple days to hours.
- Built a real-time internal analytics dashboard (Flask + D3 + WebSockets) with optimized backend queries, reducing data refresh latency to **200ms** and increasing agent engagement by **40%**.

PROJECTS

Needle(Reverse Marketplace) | Next.js, Prisma, PostgreSQL, Socket.IO | <https://github.com/aaksay1/needle>

- Developed a full-stack reverse marketplace enabling buyers to post requests and sellers to make offers with pricing, messaging, and distance-based search.
- Built a real-time chat system using Socket.IO with automatic conversation creation and instant message delivery.
- Implemented secure authentication (Kinde), API routes, Prisma ORM, PostgreSQL schema, and ZIP/geolocation validation for location-aware filtering.

Dining Hall Webscraper | Python, Java

- Programmed a web scraping solution using Java and BeautifulSoup, collecting real-time dining information from Rutgers' dining halls for student meal planning.
- Automated SMS alerts with Python and Twilio, sending timely meal notifications to users, improving user engagement and satisfaction.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, SQL, C

Frameworks/Libraries: Next.js, React, FastAPI, Node.js, Flask, Redux, D3.js, Socket.IO, LlamaIndex

Developer Tools: Git, GitHub Actions, Docker, Kubernetes, WebSockets, REST APIs, GraphQL, Prisma

Databases: PostgreSQL, MongoDB, MySQL, SQLite

Cloud/Services: Firebase, Kinde Auth, Google Workspace APIs, Twilio, Vercel, AWS (EC2, S3)