






Alim Kassymov

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EDUCATION

Stevens Institute of Technology

Graduated May 2024

Bachelor of Science in Computer Science, Minor in Music Technology

Cumulative GPA: 3.6, Dean's List

Relevant Coursework: Data Structures, Algorithms, Web Programming I & II, Computer Architecture, Database Management Systems, Linear Algebra, Data Mining, Principles of Programming Languages, Concurrent Programming, Agile Software Development, Software Development Process.

SKILLS

Programming Languages: JavaScript, Python, Typescript, Java, Svelte, SwiftUI, C++, C#, OCaml, R

Web Development: React, Node.js, Express, Next.js, Tailwind CSS, Flask, GraphQL, HTML/CSS, jQuery, Bootstrap

Tools and Technologies: Firebase, AWS, MongoDB, Docker, Git, bash/perl scripting, Figma, Kubernetes

Data Analysis: R, SQL (PostgreSQL, MySQL), pandas, numpy, PowerBI, Tableau, Excel

EXPERIENCE

PineMelon, Data Engineering Intern | *Denver, CO*

Summer 2023

- Developed an Instagram Data Scraper with Python and Selenium, capturing key metrics and analyzing over 7,000 posts' likes and comments to derive trends and insights for market strategy development and competitor analysis.
- Utilized Python and GeoJSON to develop interactive neighborhood maps of Denver, integrating data from over 50 socio-economic indicators and precise grocery store locations to assist in market segmentation and targeting.
- Automated the collection and analysis process of Denver market data, reducing the data processing time by 40%, enabling the team to make timely, data-driven decisions for marketing campaigns and future product development.

Web Programming Teaching Assistant | *Stevens Institute of Technology*

2023 – 2024

- Designed and refined a series of challenging homework problems that align with course objectives and enhance student understanding of web programming concepts such as JavaScript, Node.js, Express, and MongoDB.
- Conducted weekly office hours, providing personalized assistance to an average of 20 students per session, leading to noticeable improvements in student performance and final project grades.

Intermediate Statistics Course Assistant | *Stevens Institute of Technology*

2023 – 2024

- Provided academic support to over 60 students, significantly enhancing their understanding of complex statistical concepts and the functionalities of RStudio, which resulted in a 25% improvement in average exam scores.
- Curated and compiled extensive study notes in Markdown and LaTeX, which were officially adopted by the course instructor as essential supplementary course material, benefiting over 100 students every semester.

PROJECTS

JamWith: Music Collaboration Platform | *TypeScript, React, AWS, Express, MongoDB* | [Live Demo](#) August 2024

- Established an efficient CI/CD pipeline with AWS CodePipeline and Docker, automating deployments and reducing deployment time by 70%, while ensuring consistent environments across development and production.
- Implemented InfiniteQuery in React to optimize user querying, resulting in a 80% reduction in initial load times and seamless pagination, significantly improving the user experience for browsing collaborator profiles.
- Developed a real-time messaging system using WebSockets, facilitating instant communication between collaborators and reducing response times by 60%, leading to more efficient music production workflows.

DAIA: Diabetes Alert & Insulin Assistant | *React, Node.js, Express, MongoDB* | [GitHub](#)

March 2024

- Developed a real-time monitoring system interfacing with the Dexcom API to track and display blood sugar levels every 5 minutes with 99% uptime, significantly improving patient management and emergency response times.
- Engineered a full-stack application with React for the frontend, ensuring a responsive and accessible user interface, and Node.js/Express for the backend to handle API integration and user data processing.
- Designed an advanced Twilio emergency alert system that notifies designated contacts based on user-defined safety thresholds, substantially enhancing safety for diabetes patients.

Codagotchi: Virtual Coding Companion | *TypeScript, Svelte, Firebase, Node.js, VS Code API* | [GitHub](#) June 2024

- Developed a VS Code extension simulating a virtual pet that evolves based on coding activities.
- Implemented Svelte for the front-end, reducing load times by 70% and improving efficiency in the interactive UI.
- Utilized Firebase Realtime Database for seamless data sync, user authentication, and efficient state management.