

Jace Kasen

jace@jacekasen.com | jacekasen.com | github.com/jacekasen | linkedin.com/in/jacekasen

Education

Northeastern University

M.S. in Computer Science

Expected June 2028

Vancouver, BC

University of California, Los Angeles (UCLA)

B.S. in Computer Science | Minor in Anthropology | GPA: 3.5/4.0

June 2026

Los Angeles, CA

Relevant Coursework: Algorithms & Complexity, Operating Systems, Distributed Systems, Computer Networks, Data Management Systems, Compiler Construction

Skills

Programming: C/C++, Python, JavaScript/TypeScript, SQL

Frameworks & Tools: React, Next.js, Node.js, PyTorch, scikit-learn, Pandas, Git

Data & Databases: PostgreSQL, Supabase

Languages: English, Russian, Kazakh

Projects

NBA Analytics and Forecasting Platform | jacekasen.com/projects/nba

Independent Project

Python, Next.js, TypeScript, scikit-learn, PostgreSQL, Supabase

- Built a full-stack NBA analytics platform that processes 36,000+ player-season records across 80 seasons and presents the results in interactive web dashboards
- Created searchable career charts, player forecasts, peak-age analysis, and salary tools using Next.js APIs, server-side caching, and shareable filters
- Built a historical salary pipeline that compares contracts as a percentage of each season's salary cap, enabling fair comparisons across eras
- Trained models to predict whether a player will improve or decline next season and evaluated them on later seasons so future data could not influence the results

Financial Analytics App (FinSight)

Course Project

React Native, TypeScript, Node.js, Express.js, PostgreSQL, Supabase

- Built a cross-platform budgeting app and REST API with 20+ endpoints for authentication, transactions, financial goals, dashboards, and a social feed
- Built secure sign-in and role-based permissions with Auth0 and JWTs; designed a 10+ table PostgreSQL database with three levels of transaction privacy

EMG-to-Text Sequence Decoding

Course Project

Python, PyTorch, Bidirectional LSTM, Transformer, CTC Loss

- Tested four neural network approaches for translating wrist muscle (EMG) signals into text, reducing character error rate from a 24.18% baseline to 18.95%
- Created one pipeline for signal preprocessing, training-data augmentation, text decoding, and character-level error analysis

Heavy-Duty Vehicle Charging Site Selection

Course Project

Python, PyTorch, Faster R-CNN, ResNet-50, Geospatial Analysis

- Trained an object-detection model to identify medium- and heavy-duty vehicles in aerial imagery; prepared the data by splitting large images into 1024px tiles and turning outline labels into boxes the model could learn from
- Analyzed 2,044 Google Maps tiles around UCLA and produced a vehicle-density map to identify areas with potential demand for electric-truck charging

Leadership & Community

President, Russian-Speaking Student Association at UCLA

May 2024 – June 2026

- Rebuilt the organization to 80+ members, including 30–40 active participants
- Managed budgets, event logistics, and outreach for cultural programming
- Co-founded the Central Asian Student Union at UCLA