Serdar Mamadzhanov

sm5038@columbia.edu   ❖   (347) 525-0159   ❖   serdarmt.github.io   ❖   github.com/serdarmt

EDUCATION

Columbia University   *New York, NY*
B.A. Computer Science (Software Systems Track)   *12/2023*
- **Achievements***:* Dean's List (3x), GS Honor Society, PTK Scholarship recipient
- **Relevant Coursework:** Operating Systems, Networks, Databases, iOS Development, Advanced Software Engineering, AI/ML, NLP
- **Zeta Beta Tau, IT Chair:** Oversaw fraternity's IT infrastructure and data security

PROFESSIONAL EXPERIENCE

Hoolii Tracker   *Clearwater, FL*
   Software Engineer $08/2023$ – *Present*
- Develop CRM software by using Vue.js, Node.js backend, Firebase Auth, Cloud Functions, and NoSQL database.
- Integrate RESTful APIs, maintain, and enhance product functionalities.

ICPC (International Collegiate Programming Contest)   *New York, NY*
   Competitive Programming Intern $01/2024$ – *Present*
- Develop advanced algorithms and collaborate in Agile team settings
- Enhance problem-solving efficiency and coding proficiency in Python and C++

Pelican Invests   *New York, NY*
   Full Stack Engineer Intern $09/2023 – 11/2023$
- Handled full-stack development: integrated Stripe for payments, Google OAuth, PostgreSQL, Bubble.io; used FullStory and Google analytics for optimizations.

   Software Engineer Intern   *$06/2023 – 08/2023$*
- Led frontend development; helped with launching 529 plan crowdfunding platform.

Bravo Price Corp   *Brooklyn, NY*
   IT & Administrative Assistant $09/2017 – 12/2019$

SWE PROJECTS & RESEARCH

- **OptiStaff API:** A smart staff scheduler with notifications and new hire onboarding for businesses.
- **Multi-Server:** Built a TCP-based multi-threaded web server on Linux in C, using socket programming, POSIX threads, process synchronization, and advanced server architecture.
- **Lexical Substitution Task:** Developed a Python NLP system using WordNet, Word2Vec, and BERT for neural substitution. Enhanced deep learning and computational linguistics skills for context-aware text analysis.

PROFESSIONAL PROFILE

- **Tech**: Python, C++, Node.js, React, SQL, Linux Kernel, Git, JIRA
- **Languages:** Russian, Turkish, English, Turkmen
- **Interests:** Surfing, Jiu-Jitsu, Running, AI, Competitive Programming, Advanced Algorithms
- **Citizenship Status:** Permanent Resident of the United States of America