MANSUR TSUTIEV

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EDUCATION

Hunter College CUNY — New York, NY
Bachelor's Degree in Computer Science | Minor in Mathematics — Expected: January 2018
Major GPA: 3.6 | Honors: Dean's List

SKILLS

- **Programming Languages**: C++, Ruby, C, Swift, Javascript, SQL, Java
- **Web Development:** Ruby on Rails, AJAX, jQuery, HTML, CSS
- **Technologies**: Xcode, Git/Github, iOS SDK, Bash, PostgreSQL, AWS EC2, Linux, OS X, Windows
- **Natural Languages**: English (Fluent), Russian (Native)

PROJECTS

PeerTutor — September 2017 – Present

- *Single Page Application that allows college students to provide free tutoring on campus to their peers and receive tips for their help. Users can post requests for specific course questions, and choose one of the available tutors. Every user is tutee by default, but can register as a tutor as well. After the tutoring session, tutee can optionally send a tip to his tutor.*
- *Leveraged Ruby's ActionCable library to build sockets for live page updates between tutee and tutor. Used AJAX to dynamically load resources across the app. Implemented notifications with JavaScript and Bootstrap. Deployed to AWS EC2.*
- *Written with Ruby on Rails using PostgreSQL. Worked in a team of 5. Managed overall architecture of the application.*

OurVoteCounts — July 2017

- *Web application that helps to organize and mobilize people to take political action. Users can create protests for different causes, join other protests, and provide free transportation in their area. Helps to bring more people to voting areas that are sometimes inaccessible and to increase the number of participants in demonstrations.*
- *Designed & built the app following MVC architecture, led database design & tables implementation, wrote server-side logic to query passengers on the carpool.*
- *Written with Ruby on Rails using PostgreSQL. Worked in a team of 2.*

UnixOperatingSystem (Simulation) — March 2017

- *A program that simulates basic aspects of UNIX-like operating system such as life cycle of a process with priority scheduling, memory management and I/O device operations. User inputs signal varies system events.*
- *Developed FCFS algorithm to determine next process to be executed in the ready queue. Created data structures to represent contiguous memory that allocates a partition for every new job using 'first-fit' approach.*
- *Written with C++.*

Unix-LS (Emulation) — February 2017

- *Implemented ls shell utility that lists files and directories using Stat structure to access file information and Dirent library to read and traverse directories. Wrote an algorithm to correctly format the output in evenly sized columns.*
- *Written with C using UNIX system calls.*

EXPERIENCE

Master Call Communications — New York, NY
Data Analyst/IT Engineer — May 2011 – August 2015

- *Monitored telecom traffic data on DigiTalk Cloud Server and maintained quality of service using benchmarks such as answer- seizure ratio, average call duration, packet loss, interrupts, signal-to-noise ratio etc.*
- *Configured the cloud server to direct traffic using least-cost-routing.*
- *Analyzed phone traffic data to determine faulty routes on per country basis.*