

David Kotaev

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EDUCATION

New Jersey Institute of Technology - *Computer Science*

September 2019 - December 2020

Illinois Institute of Technology - *Computer Science*

August 2016 - May 2019

Systems Programming - *Implementing operating systems software (shells, DMA) with robust C code*

Data Structures & Algorithms - *Combinatorics, probability, program analysis, data structures, regular languages. Data structures including graphs and trees (directed graphs, BST/AVL, etc.)*

Mathematics - *Calculus (incl. multivariate calculus), linear algebra, statistics incl. data science with Python/NumPy/Pandas*

Web Design - *Using HTML/CSS/JS in combination, interfacing with backends using PHP/MySQL*

Database Design & Organization - *Constructing entity-relationship models and using SQL to manage relational databases*

Dwight Morrow High School/Academies @ Englewood

September 2012 - June 2016

REPOSITORIES

<https://github.com/flexadecimal/>

Source code for programs I have written can be found on the above GitHub profile. These demonstrate proficiency in programming in various languages and demonstrate problem-solving skills, as well as a high importance placed on readability of code.

EXPERIENCE

Crestron Electronics - *Developer Intern*

July 2019 - August 2019

Wrote sales orders integration scripts using Powershell that parsed file structures and allowed for transferring the data to various online services by way of the APIs they offered.

Games R Us - *Service Technician*

September 2018 - August 2019

Serviced computers, sold games and other accessories, including installing Windows and other operating systems, hard drive data recovery, computer parts installation, and mobile phone repairs (including screens and batteries).

Open Book Program at the Institute for Positive Living - *Technical Support*

September 2017 - 2018

Performed general computer maintenance, website development, graphic design work, tutoring, and mentoring.

Redshift Technologies - *Intern*

October 2015 - June 2016

Prepared reports and programmed in C#, using ASP.NET and MVC. Gained familiarity with issue tracking and source management software.

DAPA (Dwight/Academies Public Address) - *Programmer*

2014 - 2016

Conceptualized, created, and implemented a public address system using website technologies (HTML, CSS, JavaScript) and server-side programming (PHP, and MySQL for data storage) to display announcements and schedule information, from my sophomore to senior year at Dwight Morrow High School.

PROFICIENCIES

- Python, JavaScript, imperative languages (Java, C, C#), functional languages (Haskell)
- Understanding of Russian language
- Adobe Creative Suite (Photoshop, Illustrator)
- Wolfram Mathematica
- Microsoft Office (Word, Excel, etc.)
- ArcGIS/GIS familiarity
- Hobbyist electronics skills (soldering, wiring harness repair, etc.)
- Familiarity with Linux tools for system administration (shells, network utils, user management)
- Computer maintenance skills (PC assembly, service, software installation)