

Joshua Kim

CONTACT INFORMATION

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EDUCATION

Rutgers University, New Brunswick, NJ

B.S., Computer Science with Minor in Mathematics, GPA: 3.40 **September 2013 – May 2018**
Completed coursework in data structures & algorithms, computer architecture, systems programming, Internet technology, computer security, and operating systems.

PROJECTS

Profit & Loss Back-End Application, New York City, NY **December 2018**
Publicis.Sapient Hackathon

Built an intra-day PnL calculation and aggregation module as a component for a hypothetical Global Equities Desk at the 2018 Coding Hackathon hosted by Publicis.Sapient. Won first place amongst the back-end coding participants. (Java)

Operating System **January 2018 – April 2018**

Implemented a simple, Unix-style OS framework, which supports user threads, pseudo-virtual memory allocations, and a Filesystem in User Space (FUSE). Created a scheduler that utilizes a multilevel priority queue, each with different time quanta, to schedule user threads, which were implemented using the Linux pthread API. For certain operations, our team's scheduler was able to complete the matrix operation bench mark test 2x faster than the Unix pthread API. (C)

Recursive Descent Parser / Code Generator **February 2017 – March 2017**

Created a basic, front end of a compiler to perform lexical analysis and create Reduced Instruction Set Computer (RISC) machine instructions for the tinyL language. Optimized ILOC instructions by recursively eliminating dead code via doubly linked list traversal and memory deallocation of structs that held "eliminated" instructions. (C)

BitTorrent Client **September 2016 – December 2016**

Created a simple, BitTorrent Client to download a .mov file via peers. Implemented custom classes (Torrent, Message, Handshake, etc.), which were used to parse torrent metadata, assemble a valid list of peers, and ping such peers to find one with the lowest average round-trip time for SHA-1 hashing and downloading. Implemented a peer messaging protocol to distinguish incoming messages by their type (choke, unchoke, interested, etc.) and to determine an appropriate response from the client. (Java)

SQL Database **2015**

Created a simple, relational database with a 2D array, whose fields pertained to customer shipping information. Implemented 'DELETE' and 'UPDATE' queries to remove entries and edit previously inserted entries / fields specified by the 'WHERE' clause, respectively.

WORK EXPERIENCE

Corentec America, Inc., Morristown, NJ

Accounting & Logistics Assistant

April 2019 – present

Accounting Assistant at a medical implant and device manufacturing company with responsibilities of updating and logging sales entries into Quickbooks and Excel Master Sheet, creating and sending invoices to customers, handling and processing payables for our vendors and employees. Furthermore, prepared and fulfilled shipment requests for customers, and processed transfer orders through Fishbowl Inventory Management System.

Most recently, prepared and submitted raw data for the 2019 CMS Open Payment, a federal program that collects and makes information public about financial relationships between the health care industry, physicians, and teaching hospitals.

PROGRAMMING EXPERIENCE

Languages: Java, C, JavaScript, Python, HTML, CSS, L^AT_EX, SQL (Elementary)
Technology: Git, Unix, Vim, Sublime