Chris Olah

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Active Secret Clearance

EDUCATION

University of Massachusetts Lowell Graduated May 2023
B.S. in Computer Science **GPA: 3.35/4.0**
GPA in Major: 3.40/4.0

Honors: Cum Laude Recipient, Deans List Spring 2020, Fall 2021, Spring 2022, Fall 2022, Spring 2023
Relevant Coursework: Databases, Graphical User Interface Programming, Cloud Computing

RELEVANT EXPERIENCE

Q-mation March 2024 - Present
Technical Support Engineer *Lowell, MA*

- Diagnosed user issues resolving 300+ unique cases across production and development SCADA software environments assuring quick and efficient end user and system integrator workflow
- Oversaw 8 system, PLC, and SQL database upgrades by examining software/hardware combability and securing meticulous data backups ensuring 100% secure system and data transfers
- Debugged various .NET scripting structures ensuring error/warning free code resulting in efficient memory usage
- Implemented solutions onto live production systems lowering resource consumption and increasing data fluidity rate by advising communication object redistributions generating 10% increase in monthly manufacturing output

Charles River Development December 2020 - July 2021
IT Co-op *Burlington, MA*

- Developed PowerShell scripts automating Active Directory user and computer object information adjusting reducing company production time by 2 hours
- Troubleshooted user issues diagnosing 250+ tickets addressing CRM and investment management related software
- Upgraded 200+ computers malware protection software maintaining security software requirements companywide within hard set two-month timeframe ensuring cybersecurity standards were exceedingly met
- Upheld security compliance via lansweeper software management platform generating weekly cyber regulatory reports accounting for 800+ employees

PROJECTS

Solar System Physics Simulation - *C++*
https://github.com/Colah2122/CPP-Projects/tree/main/Solar%20System%20Simulation

- Developed realistic solar system animation utilizing Newton's Laws of motion and gravitational constant
- Formulated accurate algorithms using precise gravitational constant value producing accurate planet net force values
- Constructed 8 planet objects through multilevel inheritance employing smart pointers safely maintaining objects lifetimes ensuring memory leak free code via Valgrind

Optimal DNA Alignment - *C++*
https://github.com/Colah2122/CPP-Projects/tree/main/DNA%20Alignment

- Engineered program computing the optimal sequence alignment of two given DNA strings
- Implemented matrices algorithms analyzing two DNA sequences outputting optimized alignment sequence
- Demonstrated efficient and organized code through methodical functionality, class structure, and user-friendly documentation ensuring intelligible programming

Photo Encoding Tool - *C++*
https://github.com/Colah2122/CPP-Projects/tree/main/Photo%20Encoding%20Tool

- Created program generating pseudo-random bits simulating a linear feedback register to encrypt digital pictures
- Performed 12 sets of given C++ Boost unit tests assuring accurate and valid encryption and decryption results
- Methodized shift register API with effective class structure containing internal data members, constructors and destructors, overloading the stream insertion operator, and algorithmic member functions generating bit structure

SKILLS

- **Programming Languages:** C/C++, .NET Scripting, Python, SQL, HTML/CSS, MatLab, x86, JavaScript
- **Software:** Visual Studio Code, Github, Git, Vim, SQL Server Management Studio, Active Directory, O365, AWS