1900 Westview Boulevard
Apt #328
Conroe, TX 77304

ETHAN ARNOLD

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EMPLOYMENT

Operations Intern	**NorvaNivel**	**May 2022 – Aug 2022**

- Improved capabilities and efficiency of existing ERP system by adding/modifying custom reports using SQL and Crystal Reports.
- Identified and clarified relationships between objects and tables in company database to ensure data is accurately extrapolated.
- Began implementation of the ISO-9001 certification process and created process documentation for multiple business sectors.

Software Developer	**Naturae Oils LLC**	**Mar 2021 – Jan 2022**

- Developed software to streamline file/data input into a SQL database using AWS (Lightsail VPS) and front-end open-source software.
- Digitized batch manufacturing records to collect data via API calls for usage in KPIs.
- Redesigned modules in retail brand's website using WordPress.

Data Analyst	**Naturae Oils LLC**	**Aug 2020 – Mar 2021**

- Designed interactive spreadsheets using MS Excel to project manufacturing costs and throughput.
- Organized raw manufacturing data to aid in data visualization and improving company efficiency.
- Created graphs and data visualizations used in quarterly investor reports.

EDUCATION

Dallas, TX	**University of Texas at Dallas**	**Spring 2019 – Dec 2022**

B.S. in Software Engineering
- Concentration: Information Assurance
- Relevant Coursework: Data & Application Security, Computer & Network Security, Computer Networks, Digital Forensics, Operating Systems, Big Data Management and Analytics

Spring, TX	**Lone Star Community College**	**Spring 2016 – Fall 2019**

Associate of Arts

PROJECTS

Senior Capstone Project (sponsored by Forcepoint LLC) - seccomp
- Served as the project leader of a 6-person team.
- Responsible for presenting project sponsor demos, coordinating group meetings, fulfilling deliverable deadlines, and orchestrating code development between group members.
- Implemented seccomp (secure computing mode) within a cross domain system, utilizing a client-server architecture for communication.
- Automated client and server process initialization through systemd services and timers.
- Developed project using C/C++ in CentOS 7 hosted on an Amazon Lightsail VPS.

File Recovery Tool
- Wrote digital forensics tool in C to recover deleted .jpg files from memory of NTFS hard drive partitions
- Program traverses resident/non-resident file entries and attributes in MFT
- Creates a new copy of the recovered file using write() system call

SKILLS

Languages: C/C++, Python, Bash, SQL, Java, HTML, PHP, CSS
Tools: Wireshark, Nmap, Apache Spark, Hadoop, Hive, Databricks, MS Excel, MySQL, Emacs, Git, AWS, React.js
Operating Systems: Linux (Ubuntu, CentOS), Windows

AWARDS

Eagle Scout Award	**Boy Scouts of America**	**Sep 2014**