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## SUMMARY

Strong work ethic Full-stack Engineer that learns quickly, is a committed team player, and leads junior developers. Has 4-years of startup experience working in an agile and TDD environment. Served 6 years in the United States Navy as a Network Administrator.

## EDUCATION

- Middle Tennessee State University**

Murfreesboro, Tennessee

  - Bachelor of Science - Computer Science; Minor in Mathematics*

July 2014 - June 2018
  - Awards / Memberships:* Dean's List 2014-2018, Member of Association of Computing Machinery (ACM), Member of the Upsilon Pi Epsilon Computer Honor Society

## SKILLS

- **Languages:** Python, Swift, JavaScript, Typescript, C++, SQL, Bash, Solidity
- **Frameworks:** Django, Flask, NodeJS, React, SwiftUI
- **Tools:** Docker, Terraform, GIT, PostgreSQL, Fastlane, Truffle, Ganache, Hardhat
- **Platforms:** Mac, Linux, Web, iOS, AWS, GCP, Firebase, Github, Datadog, Sentry, Code Climate, CircleCI
- **Soft Skills:** Leadership, Problem Solving, Strong Communication, Time Management

## EXPERIENCE

- FunFunFun Inc. - Gen Z Dating**

Remote

  - Full-stack Engineer (Full-time)*

May 2020 - June 2022
  - **First Engineering Hire:** Subject Matter Expert on a live updating video dating app that integrated with TikTok with over 10,000 users, where users could like, match, and message each-other.
  - **Backend:** Built a Django and GraphQL REST API and a matching algorithm to pair users together with alike parameters. Created a series of Firebase, Firestore, and Google Storage Typescript triggers to create a video processing pipeline that asynchronously cut over 8,000 videos.
  - **Frontend:** Deployed a complete SwiftUI iOS app from the ground up to app store. Contributed to an internal Typescript React webpage to police uploaded media and content used by admins.
  - **DevOps:** Used GitHub actions to create an CI/CD pipeline for testing and deploying the backend and iOS using fastlane for multiple environments.
- Coinmine - Crypto Mining Made Easy**

Remote

  - Software Engineer (Full-time - Part-time)*

May 2018 - Current
  - **First Engineering Hire:** Built a plug-and-play cryptocurrency miner that mined 6 different cryptocurrencies 24/7, that a user could control with their iOS or Android phone.
  - **mineOS:** Built and maintained mineOS, an Arch Linux-Based Operating System, onto a small form factor computer. Fabricated the build and deployment tools for distributing mineOS images through a test and build pipeline to remotely update over 5,000 miners.
  - **Backend:** Used Agile, Extreme Programming and Test Driven Development methodologies to deploy, update, and configure a Django based REST API with over 10,000 users. Created programmatic reports to calculate all accounting owed and owned.
  - **DevOps:** Arranged and operated analytical, deployment, and pipeline tools such as: CircleCI, Code Climate, Datadog, and Sentry.
  - **Communication:** Worked with overseas distribution centers in China to construct and create Standard Operating Procedures (SOP) for assembly and manufacturing.
- Caterpillar Financial Services Corporation**

May 2017 - July 2017

  - Information Services - Network Team (Intern)*
  - **Leadership:** Led research, meetings, and recommended the replacement of a network team application. Worked as liaison between team members and company solutions, then sought out quote to be implemented into the yearly budget.
  - **Problem Solving:** Researched and developed a web dashboard that displayed global network information with Python and Flask using a SQL database. Used JavaScript, J-Query, Bootstrap, AJAX, and Google Charts to form a coherent and simple-to-use website. Implemented a search function that integrated with database calls to speed up information flow.
- United States Navy**

July 2008 - July 2014

  - Fire controlman (FC2) - Computer and Network Technician (Full-time)*
  - **Leadership:** Efficiently led as work center supervisor, supervising 8 personnel in accomplishing over 1,634 maintenance actions with a 94% maintenance accomplishment rate, managing 372 maintenance checks and repairs.
  - **Security Clearance:** Held a Secret Clearance and handled the Electronic Key Management System, which managed 106 classified software programs and hardware systems.
  - **Preventative & Corrective Maintenance:** Upkeep and corrective maintenance of the Ship's Self Defense System, Open architecture network server and computer systems, Battle Force Tactical Trainer network, and Cooperative Engagement Capability LAN.
  - **Teamwork:** Assisted in the successful overhaul of 3 major system installs with lead engineers to include: Hardware, software, and network installation, troubleshooting to the perfection of the system.

## PROJECTS

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- **Vison - multimedia search engine (NLP, Search Engine, Web Crawlers, Multimedia Processing):** (Work in progress)  
Research oriented, open source, search engine for bringing reverse multimedia search to small & mid scale enterprises. Tech: Python, NodeJS, Intel OpenVino Toolkit, Selenium, TensorFlow (October '18)
- **Reinforcement Learning based Traffic Control System (Reinforcement Learning, Computer Vision):** AI model to resolve city traffic around 50% faster. Tech: Python, Alibaba Cloud, Raspberry Pi, Arduino, SUMO & OpenCV. (August '18)
- **Panorama from Satellite Imagery using Distributed Computing (Distributed Computing, Image Processing):** Images clicked using drones, provided by ISRO were stitched together using distributed public compute nodes, effectively bringing down processing time exponentially. Tech: PHP, C++, Java, Python (March '18)
- **Drag-n-drop machine learning learning environment (Web Development, Machine Learning):** Scratch like tool for implementing machine learning pipelines along with built in tutorial for each concept. Tech: Python, JavaScript (September '18)
- **Search Engine and Social Network(Web Development, Web Crawler, Search):** Created from scratch a social network and a search engine based on the idea of integrating Facebook and Google. The launched website was among top 1000 websites in India during 2012-2013. Tech: PHP, MySQL, HTML, CSS, WebSockets, JavaScript, RSS, XML ( May '12)