JACOB ALEXANDER DELLA

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Education

Towson University   Towson,MD
B.S of Computer Science, Minor of Mathematics 3.34 GPA   *Jan 2019 – Dec 2020*

Community College of Baltimore County   Essex,MD
A.S of Computer Science 2.95 GPA   *Sep 2015 – Dec 2018*

Skills

Languages: Java, JavaScript, Kotlin, LUA, C/C++, MySQL, Python, Ansible
Markup Languages: CSS, HTML, JSON, XML, YAML
Developer Tools:Ansible, Terraform, Eclipse IDE, Intelllij, Android Studio, PyCharm IDE, Git, VSCode Editor, Linux (Debian)

Experience

Systems Programming Associate   May 2021 – Present
UPS   *Timonium, MD (Remote)*
- Succesfully designing, collecting requiements and implementing Terraform Modules to deploy resources via Google Cloud Platform
- Effectively coordinated module requirements with stakeholders, development teams and management

CAB ISM Co-Op   Jan 2021 – May 2021
UPS   *Timonium, MD*
- Refactored Ansible Playbooks into roles to make code more reusable
- Coordinated with management during failover testing to diagnose isues in observability of endpoints
- Built Selenium automation tools to diagnose issues in production and automate workflows in development

CAB ISM Intern   Jun 2020 – Aug 2020
UPS   *Timonium, MD*
- Configured Prometheus, Grafana and Netdata on 120+ hosts using Ansible to display important metrics on servers and provide host visibility
- Developed Ansible playbooks to streamline numerous application deployments on production servers
- Configured user groups, dashboards, alerts, and notification services in Grafana

IT Help Desk   Jun 2020 – Aug 2020
Hamel Builders   *Elkridge, MD*
- Effectively troubleshooted and resolved issues on user systems
- Researched and investigated IT solutions to make turnaround time on common issues as fast as possible

Assistant Superintendent / Project Engineer Intern   Jun 2020 – Aug 2020
Hamel Builders   *Elkridge, MD*
- Generated paperwork and spreadsheets to streamline various jobsite activities, such as expense reports and daily sign in
- Demolished various interior sections of building according as called out for in the architectural drawings
- Supervised subcontractors on site and reported information to upper management
- Generated paperwork and spreadsheets to streamline various jobsite activities, such as expense reports and daily sign in

Coding Projects

Personal Website | *JavaScript, React*   Feb 2019 – Present
- Used Github to deploy react application
- Utilizes React and Javascript to provide smooth page transitions

ImageR Android App | *Kotlin, Android Development*   Mar 2020 – May 2020
- Set up github repository for team
- Fully functioning, basic image processing application for Android devices on API 29
- Utilizes multiple SQLite databases to store settings and recently opened images
- Utilizes many asynchronous, multi-threading features found within Android such as coroutines and JobServices to perform actions in the background
- Designed user interface, created documentation, utilized design patterns and created instrumented Kotlin unit tests

Full-stack Reddit clone | *JavaScript, Express, React, MySQL*   Sep 2019 – Dec 2019
- Developed NodeJS endpoints and Express API to hook into MySQL database server for use with a React frontend
- Configured, administered users and designed schemas for project's MySQL database
- Managed and coordinated group effort to get project finished before deadline
- Deployed website inside a virtual machine using the Ubuntu 18.04 LTS on my home server
- Utilized multiple Git branches to keep development inertia

Jag ID facial recognition system | *Python, MySQL, OpenCV, NumPy, Kotlin*   Sep 2019 – Dec 2019
- Lead the development of the API, database and general architecture of the application
- Administered and designed schemas for use in the project's MySQL database
- Utilized PostMan to send POST and GET requests to test API features without a finished Android app
- JagID was designed to invoke Python scripts with arguments from within NodeJS and based on the outputs of the Python scripts the API will react in certain ways
- This dynamically generates folders and upload endpoints based on the user's ID as defined in MySQL upon login will SSH into a Raspberry Pi to control GPIO pins
- Utilizes OpenCV and NumPy arrays for picture verification and training data creation

Relevant Coursework

Courses: Java Programming 1, Advanced Java Programming 2, Introduction to C++, Systems Development Lifecycle, Discrete Mathematics, Linear Algebra, Data Structures and Algorithms, Calculus 1,Calculus 2,Calculus 3, Object Oriented Design, Operating Systems, Web Development, Software Engineering, Computer Organization, Mobile Application Development, Programming Languages, Database Management Systems, Applied Combinatorics, Design and Analysis Algorithms, Data Communication and Networking