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JOB RELATED SUMMARY:

- Accomplished Software Engineer who holds Bachelor's Degree in Computer Science from California State University.
- Core languages experience: C/C++ 6 years, Python 10 years. Java 6 years.
- Experienced python backend, API and GUI tool developer.
- 10+ years experience with Git and Subversion repository code version control system and working in Agile / Scrum team project development.
- Project experiences include creating dynamic web/mobile applications using: HTML5, CSS3, MySQL, Java, Python on UNIX/Linux and Windows platforms.
- 18+ years Linux OS experience.

EDUCATION

Bachelor of Science in Computer Science, California State University, Los Angeles, CA 2014

Associates of Computer Science- San Diego City College, CA 2009

US Naval Air Technical Training Center (NATTC) - US Naval Aviation Technician Intermediate "I" Level Training, Aviation Technician

Naval Nuclear Power Training Command (NNPTC) - Electrician's Mate (EM) Class "A", Naval Nuclear Propulsion Program

PROFESSIONAL EXPERIENCE:

Qualcomm, San Diego, CA   **July 2020-June 2023**
Engineer

Embedded Software Content Compliance and Linux Open Source team:

- Develop, maintain, and operate software scanning automated tools using C/C++, Python, Docker, Bash scripts.
- Overview embedded software product development lifecycle of Open Source Systems for Android, Linux, Arm, Kernel, GNU.
- Reviewed in-house developer code for open source compliance.
- Developed and maintained open source compliance review automation systems.
- Developed a web API for Open Source team to curate and manage SBOM (Software Bill of Materials) reports.
- Support engineering teams in managing open source compliance.
- Built tools in automation to streamline development processes utilizing C/C++, Python, Docker, Django, Linux/Scripts (Python, Bash, JS), JavaScript, Node.js, React.js, other JS variants.
- Systems used: Jira, Gerrit, Git/GitHub, Docker, Django, Microsoft suite of tools.

Saatchi & Saatchi, Torrance, CA   **October 2015 - July 2019**
Python Developer

- Developed in-house tools and scripts using Python, PyQt, PySide and JavaScript in Maya, Nuke, Shotgun and Photoshop.
- Maintained Python codebase connecting to Deadline hooks and exits for Autodesk Maya, The Foundry Nuke, Shotgun Software, and Thinkbox Deadline.
- Evaluate and test new applications, software, and workflows to improve production.
- Worked with a team to develop an ingestion system to automate build data sheets for annual garage CAD data from Japan utilizing Unreal Engine.

DIRECTV, Marina Del Ray, CA   **April 2015 – June 2015**
Software Engineer

- Modifying and creating scripts responsible for talking to pieces of communications and satellite equipment using Java and Groovy programming languages.

- Build front-end UI to monitor and maintain cable TV network traffic using a combination of third-party products and Groovy.

theAudience.com, Los Angeles, CA   **October 2014 – January 2015**
Data Analyst/Developer
- Created data collection scripts in Python to collect and store data from various social media sources utilizing social media's API.
- Provided insights to what information can be determined from each social media data source.
- Maintained and extended internal APIs to served stored data to other applications.
- Maintained and extended internal report generation tools.
- Worked with other development teams to create client facing reports.

INTERNSHIPS AND PROJECTS
General Motors Sponsored EcoCar2 Competition, Los Angeles, CA   **January 2014 – June 2014**
QT/QML/C++ GUI Developer
- Developed a GUI interface for an embedded system which runs C++ on a Freescale i.MX 6 Sabre ARM board.
- Used a custom Linux kernel to program the Freescale board.
- Used C++ to transmit and receive CAN signals over the vehicle's CAN bus.
- Developed a user interface using Qt QML library to create software-based controls to replace radio and climate control mechanical buttons while continually displaying live diagnostic data signals.
- Read and write CAN signals from the car, translating them using a Linux driver, and implemented in QML, C++ to display interactive touch screen controls on the vehicle display console.
- Tested onboard program inside vehicle with live controller area network signals.
- Debugged onboard program through serial cable.
- Worked with a team of 6 developers on computer science portion of project.
- **Project Website: http://csns.calstatela.edu/department/cs/project/view?id=4556961**

Boeing Company, El Segundo CA   **August 2013 – January 2014**
Test Framework Developer
- Built a test framework to automate testing for Boeing 702SP operations satellites by developing a system in Java and Python that automates the conversion of TCL/Tk-encoded test cases into Sikuli-readable JSON using the Java ANTLR parser.
- Identified and extracted test cases from TCL/Tk and Perl scripts using ANTLR into an interactive user interface in Java's JGraphx API for test engineers to select test cases, then using Sikuli, a GUI automation tool that was used to replace the test engineer, automate the process on the satellite simulator and produce a log report for later review.
- The final result was successful in optimizing testing, while saving Boeing Company time and money.
- **Project Website: http://csns.calstatela.edu/department/cs/project/view?id=4556960**

PCWerk.com, Playa Vista, CA   **January 2013 – June 2013**
Project Developer
- Wrote a program that performed data scraping from Yelp's website using Python and Selenium Web driver, and Yelp API.
- Deployed this program on a Hadoop single-node cluster setup on Ubuntu Linux.
- Performed Data Mining and Data Warehousing with MapReduce operations on single-node HDFS on Ubuntu Linux.
- Used Yelp API access for data collection.
- Performed data classification and data massaging from JSON to CSV text.
- Calculated Data analysis on yelp datasets from Yelp API using python while utilizing python extension library pylab.
- Created and presented data visualization using python matplotlib and google maps API Hosted at: **https://github.com/pcwerk**