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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++ 3 years, Python 10 years. Java 4 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
- Associates of Computer Science- San Diego City College, CA

### **PROFESSIONAL EXPERIENCE:**

#### **Qualcomm, San Diego, CA**

**July 2020-June 2023**

##### **Engineer I**

Software Content Compliance Linux Open Source team:

- Review in-house developer code for open source compliance.
- Develop and maintain open source compliance review automation systems.
- SBOM (Software Bill of Materials) web API.
- Support engineering teams in managing open source compliance.
- Build tools in automation to streamline development processes utilizing Python, React, Java, C++, C, and Shell Script.

#### **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/departments/cs/project/view?id=4556961>

**Boeing Company, El Segundo CA**  
**2013**

**August 2013 – January**

**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/departments/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>