Jacob Schwarzenberger

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Summary

I am a recent graduate from UC Irvine with a Bachelor of Science in Computer Science and Engineering and am looking for an opportunity to prove myself in a professional setting. I am an ambitious and quick learner with a passion for building my own projects. I have development experience with Python, Javascript, and C++, as well as with software such as Salesforce and Firebase. I would love the opportunity to work as a junior developer and hone my skills even more!

Professional Experience

D&D Integrated Solutions, Installation Technician (2019 – 2022), Concord, CA
- Project lead for experimental battery recycling program with Tesla, D&D, and Redwood Materials
- Was one of few selected from among peers to be trained to repair computers
- Worked with team to process and install software onto laptops for one of D&D's largest clients, the West Contra Costa School District
- Assembled and packaged security products for D&D Amazon Shop

Target, Sales Floor Team Member (2018-2019), Dublin, CA
- Worked cash register and developed customer service skills
- Restocked aisles and assisted customers whenever they needed help or had questions

Education

B.S Computer Science and Engineering from **University of California, Irvine.** Graduated 06/23

Professional Development

Pipeline from *QuoteWerks* to Salesforce: I developed software to automatically pipe product order data from Quotewerks to D&D's Salesforce database. This greatly reduced repetitive labor and removed the chance for human error.
- Technologies used: **Salesforce**, **Apex**, **Relational Databases**, **Visual Basic, REST**

Product Ordering Workflow: I developed a workflow for D&D's internal use that walked users through the process of filing product orders on Salesforce and automatically sent emails to relevant parties. This greatly reduced tedious manual labor, saving users time.
- Technologies used: **Salesforce Flows**, **JavaScript**

Revamped Product Ordering Page: I designed a custom Apex component for D&D's product ordering table, allowing users to make inline changes, without the need for navigation to another page to edit each row of data, greatly cutting down wasted time.
- Technologies Used: **JavaScript**, **HTML**, **CSS**

Crux Programming Language: Using ANTLR, I developed a programming language called Crux. It included 5 parts, the grammar, abstract syntax tree, type checking, immediate representation, and assembly code generation.
- Technologies Used: **ANTLR, Java, Assembly**

Streaming Service: I am currently developing a streaming service where users can watch media in sync with each other and browse media scraped by a custom webcrawler.
- Technologies used: **Firebase**, **Node.js**, **HTML, JavaScript, CSS, Python, Data Retrieval & Processing, Github**

Freelance Web Design: I am currently remodeling a construction company's website to make it more responsive, modern, and up-to-date with competitors.
- Technologies used: **Firebase**, **Node.js, JavaScript**, **CSS**, **HTML, Github**

Search Engine: I wrote code to scrape and index ~250,000 links in about an hour, using the Simhash algorithm to avoid webtraps and duplicate data. I also developed a search program that used cosine similarity to quickly retrieve relevant data and loading indexed data chunks in and out of memory to manage the vast data gathered.
- Technologies Used: **Python**, **Data Retrieval & Processing, REST, Github**

Autonomous Shopping Cart: I wrote the software for my senior project team's autonomous shopping cart. This allowed it to navigate a path while safely slowing down to avoid collisions.
- Technologies used: **Raspberry Pi**, **Python**, **Bash, Github**

Professional Organizations
- Member of Institute of Electrical and Electronics Engineers (IEEE)
- Member of American Mathematical Society (AMS