Ankit Sachdeva

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Education

University of California, Santa Cruz **Expected — June 2023**
Bachelor of Science Computer Science
Involvements: Santa Cruz Artificial Intelligence, Cycling Club, Santa Cruz Mountains Trail Stewardship
Relevant Coursework: Programming Abstractions in Python, Assembly Language & Computer Systems, Embedded Systems & C Programming, Data Structures and Algorithms, Computer Architecture, Computer Networks

Skills

Programming Languages
- Python, Java, C/C++, MIPS Assembly, RISC-V Assembly, Javascript, Typescript, SQL, HTML/CSS, Kotlin, Swift

Technologies
- Git, Flask, Node.js, Express, React, MongoDB, NumPy, Pandas, Matplotlib

Experience

Fox Factory **Fall 2021 (Current)**
Software Engineering Intern - Mechatronics Team *Scotts Valley, CA*
- Writing firmware for the Live Valve project's embedded systems and accompanying mobile app
- Performing QA related roles such as creating test plans, regression testing, and overseeing environmental testing

Diversified Medical Records Services **Summer 2021**
Software Engineering Intern *Salt Lake City, UT*
- Created a user-intuitive report building system to improve user experience on front end
- Rewrote legacy bash SQL scripts to Python to save compute cost and simplify codebase

Backcountry.com **Summer 2020**
Gearhead - Sales Associate and Customer Service *Salt Lake City, UT*
- Created close to $500,000 in sales for the Competitive Cyclist team and helping solve customer problems
- Extensive usage of Oracle NetSuite ERP and WMS to create, track, and modify orders

Iris Logic **Summer 2019**
Mobile App Development Intern *Santa Clara, CA*
- Designed and developed an Android application to complement the *Boltron Machine Monitoring System*
- Adjusted application to meet Google Play Store requirements and fixed compatibility with tablets

Projects

Huffman Compression Algorithm **git.io/JWAmK**
- Implemented the lossless Huffman Compression algorithm in C with low level system calls for I/O reads and writes
- Created fundamental data structures including nodes, queues and stacks and performed bit-wise operations

UCSC Portal Enrollment Script **git.io/JnG2n**
- Implemented Selenium to schedule automatic enrollment in their preferred classes before classes reach capacity
- 15 students used the tool for successful winter quarter enrollment, now revised to work around Duo 2FA

Remote Suspension Controls **git.io/JITE1**
- Used arduino with servers to create a wireless lockout for a mountain bike fork and shock
- Built encryption between master and slave remotes to prevent any malicious interference

Unmasked Android Application **git.io/JITut**
TinoHacks II - 3rd place
- Wrote an Android application to scan cosmetic items and highlight potentially harmful ingredients
- Utilized Firebase and Google OCR API with Java in Android Studio