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, Badminton Club
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, LaTeX

Experience

Fox Factory **Fall 2021 (current)**
Software Engineering Intern - Mechatronics Team *Scotts Valley, CA*
- Writing firmware for the Live Valve project's embedded systems in C utilizing the Nordic nRF52 SDK
- Performing QA related tasks such as creating test plans, regression testing, and overseeing environmental testing

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

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 while 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 larger 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
- Used by 15 students for a successful winter quarter enrollment, now revised to work around Duo 2FA and updates

Remote Suspension Controls **git.io/JITE1**
- Used multiple arduinos acting as masters and slaves to create a wireless lockout system for mountain bike suspension
- Built encryption between master and slave nodes to prevent any malicious interference

Unmasked Android Application **git.io/JITut**
TinoHacks II - 3rd place
- Designed and wrote an Android application to scan cosmetic items and highlight potentially harmful or allergic ingredients
- Utilized Firebase and Google OCR API, written with a mix of Kotlin and Java in Android Studio