Alex R. Ngo

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Profile

I'm a college student with 7+ years of academic experience in STEM disciplines including CAD and Circuitry, 2+ years of proficient programming in Python and Java, 1 year of coding work experience, and a curious mindset that leads to a passion for lifelong learning. Achieved the highest rank in Boy Scouts as an Eagle Scout through leadership initiatives and community service projects. I aspire to become a Software Engineer and am currently seeking a summer internship to learn from tech professionals, contribute to team projects, and apply classroom learning to the real world.

Technical Skills

- **Languages:** Python, Java | **IDE:** Visual Studio Code, Replit | **Version Control:** GitHub | **CAD:** Solidworks, Autodesk Inventor
  Digital Electronics: Arduino IDE/UNO, Digilent Protoboard | **MS Office:** Word, Excel, PowerPoint
  Google Workspace: Docs, Sheets, Slides | **Operating Systems:** Windows, MacOS.

Education

SEPTEMBER 2023 - PRESENT | University of California Irvine, Irvine, CA - *Current GPA: 4.00*
- Major: Pursuing a **BS in Computer Science** specializing in Intelligent Systems while also minoring in Statistics with an anticipated graduation date of June 2027.
- Selected out of 400+ applicants to be part of 80 Hackers who competed amongst 20 teams in a 12-hour Hackathon. Coded a Student Hunger Smart Assistant: Given user input of a start and end destination, price range, radius from route, and keywords, our website displays the name, address, and rating of businesses that are relevant and en route. Frontend: JavaScript, HTML, CSS | Backend: Python | APIs: GoogleMapsAPI, YelpAPI, FastAPI | Version Control: GitHub.
- Coding Languages: Python and on track to learn C++, C, SQL, MIPS, Prolog, Lisp, Verilog, and RISC-V.

AUGUST 2019 - MAY 2023 | Glen A. Wilson High School, Hacienda Hts, CA - *Weighted GPA: 4.54*
- Teacher's Assistant for AP Computer Science/ Principles for 35+ students.
- Completed optional 4-year Computer Science Pathway and 4-year Engineering Academy Pathway.
- Created games: Tic-tac-toe, Number Guessing Game, Grocery List Manager, etc. Demonstrated knowledge of 2D Arrays, User Interaction w/ validation, Conditional Statements and Loops, String Manipulation/Formatting, Game Logic, Functions, Data Structures, Recursion, Menu-Driven Interface (Add Remove View Edit and Exit Program).
- Abstract Data Art Project Most Spoken Languages Worldwide (Code.Org): given large datasets I displayed the information in an organized way using visual/audio representations ranging from images, text, tables, and sound files.
- Engineering Capstone Project: Used HTML to prototype and test our Beginner Driver tool. Utilized APIs: OpenStreetMaps, Overpass Turbo, Leaflet. Goal was to inform users of speeding, traffic/navigation information in real-time.
- Student Representative at Wilson Quad STEM night: Led sessions informing parents and students from 5 schools about Wilson's Computer Science and Engineering pathways offerings. Showcased the curriculum, projects, and answered questions.
- Coding Languages: Java | Clubs: Red Cross and Kiwins | Athletics: 4-year basketball.

Experience

NOVEMBER 2023 - PRESENT | Hack at UCI, Irvine, CA - *Corporate Outreach Intern*
Establishing/Strengthening partnerships with 13+ tech companies (Northrop Grumman, Google Cloud, etc.), and local organizations to enhance the experience of UC Irvine's student-run hackathons. Acquiring diverse sponsorships ranging from monetary support, hardware, swag, and mentorship programs. Most recently: ZotHacks Hackathon 2023 (72 hours, 8 sponsors, and 400+ attendees).

NOVEMBER 2022 - SEPTEMBER 2023 | Code Ninjas, La Habra, CA - *Coding Instructor*
Part-time job. Taught/Assisted 72+ students ages 5-14 per shift as thNOey progressed through the various coding languages which consisted of Scratch Jr., Scratch, Javascript, LUA, and C#. Helped debug and grade coding assignments, applied logical teaching methods, and collaborated with parents and fellow instructors to ensure that agreed-upon objectives were achieved.

MARCH 2016 - SEPTEMBER 2023 | Boy Scouts of America (BSA), Troop 103 - *Eagle Rank earned April 2023 (Highest Rank)*
BSA is an organization that promotes character, outdoor activities, and community service. Only 4% achieved the Eagle Rank. Took on extensive leadership roles including my Eagle Scout project where I fundraised and purchased $1200 worth of materials and put together 300+ activity kits for the patients at Children's Hospital of Los Angeles. Led a troop of 20+ scouts on numerous community service projects totaling over 200 hours.

JULY 2010 - SEPTEMBER 2023 | Tigers Youth Club (Non-Profit) - *Coach/Volunteer*
Player turned dedicated coach/volunteer, imparting basketball skills to over 100+ youths annually for the past 5 years.

Awards

- AP Scholar with Distinction (Granted to students who receive an average score of at least 3.5 on all AP Exams taken, and scores of 3 or higher on five or more of these exams).
- Wilson Institute of Technology and Sciences Award (Recipients are chosen based on completing a 4-year pathway ranging from biomedical science, computer science, and/or engineering).
- All-Tournament team award, Coaches award, Student-Athlete award, Team Captain.
- Tigers Youth Club Service Award 2023, Kiwanis Club Scholarship Award May 2023.