Isaac A.B. Yep

Maker of things,
lover of people.

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Programming

- C/C++ ●●●●●
- Python ●●●●○
- C# ●●●●○
- Java ●●●○○
- HTML/JS/CSS ●●●○○
- Haskell ●●○○○
- MatLab ●●○○○
- SQL ●●○○○

Embedded

- Arduino
- Raspberry Pi
- Particle Photon

CAD Tools

- AutoCAD
- SolidWorks
- Comsol
- ANSYS

Education

BS. Mechanical Engineering — UAA
Awarded 2016
Minor in Mathematics, Minor in Physics, Research in vertical axis wind turbine development with field work.

BSID. Mathematical Physics — UAA / PSU
Awarded 2019
Research in plasma physics with presentation at APS convention, Research in climate change / atmospheric physics sensors development and testing with pending research paper publication.

MS. Computer Science — PSU
Currently Studying
Currently an MCECS IT volunteer, and learning/contributing in a back-end web development team on a live laravel product.

Experience

Software Engineering Intern — Software Engineering
Am currently interning for NASA at Stennis Space Center as a software engineer, working on a COTS intranet application and shadowing in an agile development team

Computer Action Team — Information Technology
Know by the acronym 'The CAT', a student and faculty-led IT organization involving weekly IT training, IT support desk shifts, and collaborative work across teams. Working in an internal full-stack web development team that develops and maintains CAT tools/applications

Arduino Workshop Instructor — STEM Education
Currently Instruct Introductory Arduino labs/workshops for the PSU student physics society.

Sensors Developer — Computer Systems Engineering, Data Science
Designed and tested atmospheric sensors and experimental procedures to develop a low-cost CO2 measurement system for climate change research with the PSU physics department, under Dr. Andrew Rice (see references). Also in charge of Data collection and writing analysis scripts.

FE Exam — Mechanical Engineering
Have passed the Fundamentals of Engineering (FE) Mechanical Examination.

Plasma Physics Researcher — Academic Team Research
Worked with a university plasma physics research team on a plasma confinement vessel, assisting with structural design and research in developing a microwave plasma interferometry circuit and diagnostic instrument. Presented a poster on helicon plasma confinement with my team at the APS plasma physics conference.

Field Work Researcher — Mechanical Engineering
Worked on vertical-axis wind R&D site for the University of Alaska Anchorage department of mechanical engineering. Flown to remote Alaskan villages to work on design, electrical and mechanical components of wind energy systems and small grid mechanics inf field several times under direct supervision of Dr. Robert Wills (P.E.).

Intro Math Instructor — STEM Education
Worked as an adjunct professor of mathematics at the University of Alaska Anchorage.

Lead Math/Science Tutor — STEM Education
Acted as the supervising math and science tutor of the University Learning Commons at UAA for 2 years, and worked in that math/science tutoring lab for 4 years. I'm currently contracted by Grade Potential, Varsity Tutors, Tutor Doctor and BBEDC as a STEM tutor for distance clients on an online platform.

Carpenter / Construction Worker — Technical/Manual Labor
Freelance commission carpenter/contractor, have been employed seasonally by a flooring company, lumber supplier, road construction company, and as a private oil field roustabout. Primary focus was carpentry, working trades to pay for engineering school for 6 years. Currently fork lift certified.

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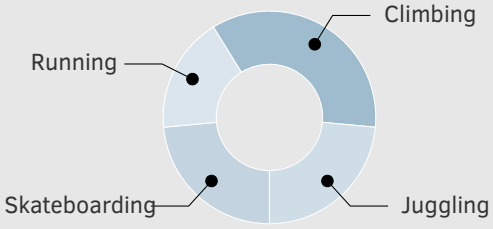
Personal

and I'm a professional kid!



Memberships

BRILLIANT

Brilliant.org
Daily - Math/Comp-Sci Lessons

codecademy

CodeCademy.com
Monthly - New Language Introduction

duolingo

Duolingo.com
Daily - Japanese Lessons

treehouse

teamtreehouse.com
Weekly - Dev-Ops/Comp-Sci Lessons

Awards

2011 – 2015	Recipient of the Alaska Performance Scholarship
2015	Recipient of the Society of Petroleum Engineers Scholarship
2016	Recipient of the Dr. Alex Hills Engineering and Civic Engagement Award

About Me

Hello, ようこそ

I love making things, I love people, and I want to be a person I would laugh and get along with for 45-50 hours a week. That's the heart of my pitch. I grew up in Alaska and pursued a B.S. in mechanical engineering, and worked in vertical-axis wind turbine and small grid development until my state found itself in a recession. I got a job teaching math at my university and pursued a physics degree while managing the science tutoring lab and working seasonally as a carpenter. As job market recovery was slow, I moved here to the PNW to finish my physics degree and get a job, but as I got into climate change research as a sensors developer for my physics capstone, our began work on a scientific journal publication, and I found a passion for computer science. I love it here in the PNW, and would love to continue to grow as an engineer and scientist with you and your company. I've worked various construction trades for several years and have finished two degrees, so I'm no stranger to crunch time. I'm currently pursuing my masters in Computer Science at Portland State University, as well as working for the student-led IT department and a back-end volunteer development team. Currently on a 700+ day streak of Japanese self-study! I would love to be a long–term player on your team or problem solvers!
どうもありがとう！

References

Letters of recommendation can be provided upon request:

Cameron Nay	Former Supervisor; UAA Tutoring / Student services
Dr. Andrew Rice	Current Research Mentor; PSU Atmospheric Physics Lab
Dr. Aslam Khalil	Former Professor; PSU Physics
Dr. Nathaniel Hicks	Former Research Mentor; UAA Plasma Physics Lab
Dr. Nicolae Lobontiu	Former Professor; UAA Mechanical Engineering
Dr. Katheryn Rawlins	Former Professor; UAA Physics
Dr. Jifeng Peng	Former Work/Research Mentor; UAA Mechanical Engineering
Megan Ossiander-Gobeille	Former Teaching Colleague; UAA CPDS
James Rush	Former Welding Instructor; UAA Machine Shop
JP Lavoie	Former Manager; Crosscut Hardwoods