

Nathan Yan

Computer science major with 4 years of experience in competitive programming and software development seeking a summer/fall internship. Experienced in full-stack development and machine learning frameworks.

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Education

University of Washington, Paul G. Allen School of Computer Science, GPA: 3.75 *Jun 2024*

Newport High School, GPA: 3.96 (National Merit Finalist) *Jun 2020*

Experience

Full-stack Engineer at Arc Security, Seattle, WA *Jan 2021 - Present*

- Working on backend and frontend of a personal safety app aimed at the real estate industry using Node.js/express and React Native, as well as Amazon AWS, Auth0 and MongoDB.
- Currently in beta testing among over 30 realtors around the Seattle area.

Instructor at Smart Coding School, Bellevue, WA *Sep 2018 - Sep 2020*

- Taught data structures and algorithms courses to classes of 8-10 middle/high school students.

GradeBook, Bellevue, WA *Oct 2017 - Jun 2020*

- Designed and built a grade-tracking app (web + Android) based on the Bellevue School District gradebook, used by 300+ students for academic tracking and planning.
- Built a web MVP then led a team of 3 other students to build an Android app.
- Used Python, Flask, React Native, MongoDB, Git and Nginx.

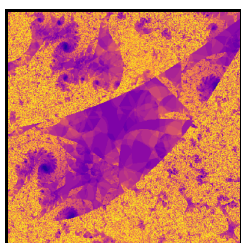
Student at Yale Summer Program in Astrophysics, New Haven, CT *Jul 2019 - Aug 2019*

- Researched supernovae and implemented state-of-the-art techniques in data processing for astrophysics research at Yale University using Python and Matplotlib, NumPy and Pandas.

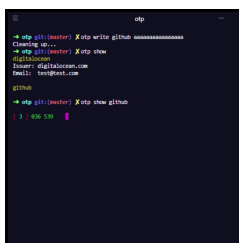
Frontend Developer at Bellevue Badminton Club, Bellevue, WA *Apr 2018 - Jul 2018*

- Hired by Bellevue Badminton Club to develop a court reservation system using React.js.

Projects



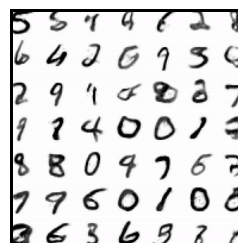
Creating fractals with "neural networks"
(python, numpy)



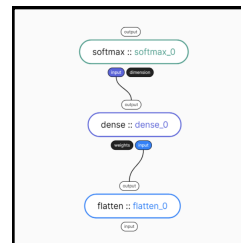
otp, a command line one-time password interface (python, cli)



Deep Recurrent Attentive Writer, Gregor et al., 2015 (python, pytorch)



Generating MNIST digits with neural cellular automata (python, pytorch)



Deep-GUI, a graphical deep learning library (python, tensorflow, react, typescript)

Skills

- Proficient in Python, Java, C++, C#, Node.js, React.js, Express.js, and HTML/CSS.
- Experienced with PyTorch, Tensorflow and Theano ML frameworks.
- USACO gold division.
- Team 1st/2nd/1st place at TeamsCode/PLU/PSCSTA programming contests (advanced division) in 2019/2018/2017.