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## Alexander Pedersen

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github.com/obventio56

### Education

#### HARVARD UNIVERSITY

Candidate in Applied Math and Computer Science.

GPA 3.67

Relevant Coursework: Algorithms and Data Structures, Programming Languages.

Commit 20 hours per week to the Harvard Varsity Heavyweight Crew Program (non-recruited).

Cambridge, MA

May 2022

#### BOILING SPRINGS HIGH SCHOOL

Graduated Valedictorian. SAT 1: M:760 V:780, ACT: 35.

National Merit Scholarship Finalist. Student Body President.

Boiling Springs, PA

June 2018

### Technical Skills

**Technical:** C++, C, Python, PHP/MySQL, Ruby, JavaScript, R, Julia, HTML/CSS

### Relevant Experience

#### BEIJING GENOMICS INSTITUTE

##### Bioinformatics Intern

- Worked with advisor to design a novel metagenome assembly algorithm using a modified greedy technique.
- Generated statistical results to analyze the quality of different experimental procedures in soil metagenome assay.
- Wrote parallelized code to handle hundreds of gigabytes of data on a specialized compute cluster.

Shenzhen, China

June 2019 – August 2019

#### PIXEL&HAMMER

##### Website Development Intern

- Contributed to CMS backends for regional clients including state tourism boards, professional development communities, and municipal governments.
- Implemented a sharing-economy web application using Laravel, Vuejs, and Stripe.
- Redeveloped an ecommerce site with more than \$50,000 in monthly revenue.
- Collaborated effectively with technical and non-technical members within a small team of six.

Carlisle, PA

June 2016 – August 2018

### Leadership and Activities

#### THE HARVARD CRIMSON

##### Website Design Executive

- Lead a team of associates to design and implement new features for the website of a student newspaper with more than 16 million annual page views.
- Communicate actively with journalists and editors to create designs that fit content
- Previously worked as a design associate, contributing to a complete website design.

Cambridge, MA

October 2018 – Present

#### HARVARD CHINA FUND

##### Website Intern

- Collaborate with faculty and staff to update, improve and maintain two WordPress sites with more than 5,000 monthly visitors.
- Organized and implemented the translation of all content in to traditional and simplified Chinese.

Cambridge, MA

February 2019 – Present

### Interests and Skills

**Interests:** Marathonning, Hydroponic Agriculture, Journalism

**Language:** Mandarin (intermediate), French (intermediate)