

# PIETER BENJAMIN

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Personal Website - <https://pieterbenjamin.github.io/personal-website/>  
Github Profile - <https://github.com/PieterBenjamin>

## Skills Summary

Git (2 yrs), C/C++ (boost), Java (fork/join, spring), Python, MATLAB/R, SML, BASH  
React, Jekyll

**Paul G. Allen school** (Grad 2021), CS major/Stats minor, 3.54 GPA, Deans List (Au17, Sp18)

Relevant courses – Compilers, Computer Vision, Hardware/software interface, Language Design, System/Networks, Data Structs & Parallelism, Software Design/Implementation, Discrete Math, Applied Stats., Lin. Algebra

Major projects – CampusMaps (google maps), Parallel Chess AI, Reverse File Indexer/Server

## Team Projects

**Developer, Impact++** (Oct 2018 – present)

- Club with 4 teams of ~6 developers volunteering with open source nonprofits
- Collaborated with Farestart stakeholders using react to optimize expenditure analysis (estimated \$1,000 a week benefit)
- Tested/fixed issues of Small Basic with dev team
- Developed club website - <https://impactplusplus.github.io/website/>

**Undergraduate Researcher, Integrated Brain Imaging Center** (Feb 2018 – Sep 2018)

- Wrote/documented bash program to abstract choosing/using a slice of MRI scan to create an extremely individual Christmas/birthday card to thank participants in a study  
<https://github.com/PieterBenjamin/birthdaycard>

## Personal Projects

**Checkpoint** - <https://github.com/PieterBenjamin/Checkpoint>

- Local (single file) version control. Written solely in C, using Hashtables, Linkedlists, and N-ary trees I also implemented in C.

**RayCastingEngine** - <https://github.com/PieterBenjamin/RayCastingEngine>

- Raycasting engine written in python. Offers map creation via 2D arrays and choice between top down and first-person viewing angle

**GoodReads-Scraper** - <https://github.com/PieterBenjamin/GoodReads-Scraper>

- Used Scrapy (Python library) to implement a [goodreads.com](https://www.goodreads.com) scraper. Given an author's name, scrapes the quote section of that author, and saves the quotes in JSON files
- Includes script to display a random quote on opening a terminal window

## Work Experience

**Dinner Lead, ROOTS** (Oct 2017 – Sep 2019) - Organized 4-5 volunteers cooking for 50-70 homeless guests

**Line Cook** (Apr 2018 – Aug 2018) - Worked 30 hrs/week during school year, continued through summer

**Attorney, Varsity Mock Trial** (Sep 2015 – Apr 2017) – Made varsity 2<sup>nd</sup> year in high school club