Michael Abelar

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EDUCATION

University of Pennsylvania — Philadelphia, PA
Jerome Fisher Program in Management and Technology — *2017-May 2021*
Pursuing a B.S.E in Computer Science and a B.S in Economics (Management Concentration); GPA: 3.89/4.00
Relevant Coursework: Data Structures and Algorithms, Computer Systems, Operating Systems, Network Systems, Applied
Machine Learning, Management, Corporate Finance, Macroeconomics, Accounting, Probability

Biotechnology High School — Freehold, NJ
GPA: 4.00/4.00 (96.77/100) — *2013-2017*

EXPERIENCE

Facebook Software Engineering Intern — Menlo Park, CA
Developed a system for recognizing, analyzing, and handling event ticket scammers using PHP and ML — *May 2019 - Aug 2019*

Facebook University — Menlo Park, CA
Learned iOS mobile development to develop a day trip planning iOS mobile app: tinyurl.com/y9o8ds3m — *Jun 2018 - Aug 2018*

CIS 121 Teaching Assistant: Data Structures and Algorithms — Philadelphia, PA
Responsible for teaching recitation, writing homework problems/solutions, holding office hours, and grading — *Aug 2018 - Dec 2019*
Developed an Eclipse plugin for students that checks code style: tinyurl.com/yb9b93qe
Developed an online office hours queue for the course (see below)

CIS 553 Teaching Assistant: Networked Systems — Philadelphia, PA
Responsible for holding office hours and grading — *Jan 2020 - present*
Developed an autograder which uses Docker to grade network implementations written in the p4 programming language.

Penn Labs Android Developer — Philadelphia, PA
Android developer for Penn Mobile, a student resource app with hundreds of weekly users — *Sept 2017 - Aug 2019*
App: tinyurl.com/lbmsnod

Independent Android App Developer — Philadelphia, PA
Published over 20 Android applications with more than 190,000 cumulative downloads: — *Sept 2014 - May 2018*
tinyurl.com/y8lb957e

Independent Windows App Developer — Philadelphia, PA
Published over 5 Windows applications with more than 100,000 cumulative downloads: — *Jan 2015 - Jan 2016*
tinyurl.com/y6bg9jgc

Programming Tutorial YouTube Channel — YouTube
Created over 25 YouTube programming tutorials in OCAML, Django, HTML, Android and Python — *Jun 2015 - present*
tinyurl.com/yxn6hotm

PERSONAL PROJECTS

- **Encompass Interviews**: Technical interview platform which tests a candidate's ability to read documentation, follow APIs, and read example code to solve challenges: encompassinterviews.com
- **Fundamental Trainer**: Investing practice platform to improve experience with long-term value investing: fundamentaltrainer.com
- **Online Office Hours Queue**: Used by hundreds of students and three computer science classes at my university: github.com/mike2151/Online-OH-queue
- **Viz Graphs**: Online interactive website that helps individuals visualize different graph algorithms based on graphs they create: http://vizgraphs.herokuapp.com/
- **Type Melee**: Online competitive typing game made using sockets: http://www.typemelee.com/
- **Wormtraq**: Online worm image analysis software using image processing: http://wormtraq.herokuapp.com/

PUBLICATIONS

- **Mobile Application Ideation**: Book describing the process of generating successful mobile application ideas
  https://www.amazon.com/dp/B075177K6M
- **A Comparative Analysis of Various Security Applications for the Android Operating System**: Published in the Journal of Information Assurance & Cybersecurity   http://ibimapublishing.com/articles/JIACS/2016/955268/

SPEAKING ENGAGEMENTS/DISTINCTIONS

- **Holmdel Idea Summit**: Spoke about Claytronics and programmable matter to over 300 researchers, entrepreneurs, and engineers at Bell Labs: http://theholmdelideasummit.com/

Programming Languages: Python (Proficient), Java (Proficient), C (Familiar), Javascript (Familiar), PHP (Familiar)