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JAMES MASTRAN

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Permanent Address:

464 Maple Avenue
Blairsville, PA 15717

EDUCATION

Columbia University
B.S. Computer Engineering, GPA 4.07/4.00

Expected Graduation – 2021
NEW YORK, NY

Washington & Jefferson College
B.A. Computing and Information Studies
Alpha Scholar, GPA: 3.99/4.00

Member of: Alpha Lambda Delta Society, National Society of Leader and Success, National Physics Honor Society (SPS), W&J Fellow's Program

2016 – 2019
PITTSBURGH, PA

EXPERIENCE

FPoliSolutions LLC

Consultant Software Engineer (September 2019 – Present)
- Continuing prior work: Coding FPoliSolutions' (FPS) website and developing FPS' Enterprise Platform

Software Engineer Intern (May 2019 – September 2019)
- Developed FPS' Enterprise Platform using the MVC software architecture pattern to complete full stack development in PHP, Java, JSON & PostgreSQLand made the software iOS compatible
- Installed Selenium to implement a testing suite in PHPUnit and JUnit for the purpose of indicating risks
- Took the initiative to change database calls from client-side to server-side to decrease asymptotic run times
  - This initiative kept the project in-house which saved the company tens of thousands of dollars
- Implemented two-factor authentication, password reset, and create account via frontend/backend code per customer's request

May 2019 – Present
PITTSBURGH, PA

Pathways of Southwestern Pennsylvania, Inc.

Information Technology Intern
- Designed, produced, and distributed HITECH and HIPAA compliant surveys to help foster EVV-mandated transition
- Used Python and Tableau to analyze results of the survey to produce & present a 40-slide PowerPoint of risks

January 2019 – May 2019
WASHINGTON, PA

PowerTrain, Inc.

Software Engineer Intern
- Informed mentor about the installation process of PhoneGap and Cordova
- Applied knowledge of PhoneGap, Cordova, PHP, and HTML to code phone application for Android/iOS/Windows

July 2015 – August 2015
LANDOVER, MD

RESEARCH

Research with Dr. McCracken

Researcher
- Utilized Python to investigate the use of machine learning in classification of particle decays and to make graphs

Summer 2016
WASHINGTON & JEFFERSON COLLEGE

LEADERSHIP

USA Hockey

Hockey Official Level 3
- Evaluate actions of players/coaches/spectators to make decisions that create an environment that is safe, fair, and respectful
- Obtained ten-year status

September 2009 – Present
PITTSBURGH, PA

Alpha Tau Omega

Historian
- Communicated our fraternity's good deeds to nationals via ATO Roadshow, Instagram, and Facebook
- Spearheaded the fraternity's 200-page annual report which detailed our chapter's efficiency and led to special recognition

January 2017 – January 2018
WASHINGTON, PA

TECHNICAL

- **Proficient Programming Skills (Most proficient to least):** Java, C, C++, PHP (HTML/CSS/twig), Python, SQL
- **Technical Knowledge:** Data Structures, Electrical Circuits, Agile, Fundamentals of Computer Systems
- **Java Server Project** (2009 – 2016)**:** Developed, deployed, and ran a Java server as a hobby and to learn
- **Android Application Projects:** (2012)**:** Launched multiple Android applications on the Google Play Store

PERSONAL

- Avid hockey player since age 5
- Self-taught magician: creates, develops, and performs close-up tricks for fun
- Member of the low/high voltage sub-team for Columbia's Formula SAE team