# Anton Pozharskiy (Github: apozharski)

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## Education:

University of Maryland: College Park, College Park, MD
**Bachelor of Science in Computer Science,**
**Bachelor of Science in Electrical Engineering,**
**Graduating: December 2020**
Status: Senior. GPA: 3.81

## Experience:

**Stripe** **Summer 2019**

*Intern, Developer Productivity, Ruby Infrastructure:*

- Implement framework for collection, aggregation, and presentation of code metrics.
- Worked with multiple teams to provide long lasting productivity gains.
- Develop Rubocop linting rules to provide for quick-path debugging.

**Hillcrest Laboratories (InterDigital)** **Summer 2018, Summer 2017**

*R&D Intern:*

- Develop a novel in-house embedded Visual-Inertial Odometry algorithm.
- Qualify and test OSS SLAM, and Visual-Inertial odometry algorithms.
- Implement fisheye calibration for camera_calibrator ROS node.
- Developed room level localization algorithm using wifi access points.
- Developed Android app for RF fingerprinting data collection.

## Relevant Courses:

- Algorithms
- Organization of programming Languages
- Compilers
- Digital Circuits
- Computer Vision
- Signal Processing
- Robotics
- SLAM

## Projects:

**Erlang Bit-torrent implementation**

*Implement the bit-torrent standard client in erlang*

- Including features such as endgame mode and download restarting.
- Speed/memory footprint comparable to or better than other implementations.

**AdatptiveAud.io**

*Automatically dim music volume to allow your friends to talk.*

- Use statistical signal matching to eliminate music being played.
- Speech detector using discrete fourier transform and bandpass filter.

## Skills:

Languages: Python (NumPy,SciPy,MatPlotLib), Java, **C, C++**, Ruby, Ocaml, Erlang, Verilog.
Tools: CMake, git, SQL, ROS, Android, LaTeX, SLAM technologies (RGBD, Mono, Stereo).

## Clubs/Leadership:

**Algorithms TA** **2017-present**

- Run weekly reviews and office hours
- Manage class organization as Head TA (2019)

**Dulaney High school FRC Robotics team: REX (1727).** **2016-2018**

*Programming/Electronics mentor*

- Train programmers new to the frc system.

## Awards/Professional Organizations/Events:

TOP 10: HopHacks 2017 with AdaptiveAud.io (Python based automated, adaptive, volume control)