

# Ayush Rohatgi

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## EDUCATION

**Virginia Commonwealth University (VCU)** (Cumulative GPA: 3.3) 8/2013-5/2018

Bachelor of Science, Computer Science | Bachelor of Science, Computer Engineering | Minors: Math, Physics

Certificate of Data Science: Artificial Intelligence, Data Science, Natural Language Processing, Databases

**Henrico High School** - International Baccalaureate Diploma Graduate 9/2009-6/2013

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## EXPERIENCE

**GE Digital, GhostRed Team - Glen Allen, VA: Software Engineering Co-Op/Intern** 2/2017-12/2017

Manager: Jesse Clark and Kelly Candler

- Reducing overhead time from 1 month down to 1 week, for Manager to Candidate interactions by creating “Monocle & InSense”. Interacting with the data set using an application built with Xamarin and Android Studio, trained using TensorFlow. Worked directly with Microsoft Consultants.
- Help transition team repository to Monolithic GitHub repo with reduced API calls with Bazel, Python, C#.

**CGI Federal, EPA Team - Fairfax, Virginia: Software Engineering Intern** 6/2016-8/2016

Managers: Bill Holochwyst and Jason Brown

- Consolidated 6 existing EPA database services into a single portal for the Office of Research & Development’s “O-AIM” project. Developed with Knockout.js, Pager.js, SQL, this portal allowed EPA staff to manage their research projects.
  - Worked on the ICE GeoFencing project as an Android developer. This project seeks to show visual feedback of EPA projects for consumers, by following multiple projects in a streamlined interface.
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## PROJECTS

**Computer Science: High Speed Data Streams Classifier Detection Software in MOA** 8/2017-Present

Capstone Senior Design Advisor: Dr. Bartosz Krawczyk, *VCU, Department of Computer Science*

- Contributing to Open Source framework, *MOA*, by conducting research in the field of Data Streams. Applying Novel Class Detection with Transfer Learning for Classifier Identification with Java.

**Computer Engineering: Kinect Virtualization via Raspberry Pi Compression & Bluetooth** 8/2016-Present

Capstone Senior Design Advisor: Dr. Yuichi Motai, *VCU, Department of Electrical & Computer Engineering*

- Building software to transmit data from the Kinect to a Windows PC via Bluetooth Enabled Raspberry Pi.
- Upgrading project SDK to V2 and novel object detection for Computer Vision using C# and MATLAB.

**Microcomputer Systems: Robot Development** 8/2016 - 12/2016

Professor: Dr. Weijun Xiao & Dr. Liang Xu, *VCU, Department of Electrical & Computer Engineering*

- Used C and Assembly to build a robot to navigate a maze, follow a line, and draw artwork using sensors.

**Virtual Interactive Worlds: Game Development** 8/2015- 12/2015

Professor: Semi Ryu & John Kinter, *VCU, Department of Kinetic Imaging*

- Used C# to create applications and games with the Unity Game Engine and Microsoft Kinect V2.

**Vertically Integrated Projects: Unmanned Aerial Vehicle** 1/2015-5/2015

Advisor: Dr. Matthew Leccadito & Dr. Tim Bakker, *VCU, Department of Electrical & Computer Engineering*

- Developed an Android application using Qt which monitored statistics of a Quadcopter.
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## SKILLS

**Computer Skills:** Xamarin, Java, C#, Assembly (MIPS, ARM), Python (Jupyter, TensorFlow), C, C++, JavaScript, Angular, Knockout.js, Android Development, Qt, Drupal, MATLAB, Unix/Linux, Windows Development, SQL

**Courses in Progress:** OpenCV, CUDA, R, ROS

**Languages:** Fluency: English, Hindi, & French | Intermediate: Mandarin Chinese | Beginner: Spanish