

## The main stuff

### Experience

- 2015–2018 **Software Engineering Intern, SAP Labs,** May, 2015 – Present.
- SAP Consumer Insights 365 – a big data solution that allows market researchers to gain unique consumer insights by analyzing terabytes of data. My work on CI365 has been in many cross functional areas of it's technical stack.
    - Front-end development: create simple ways our users could craft meaningful queries, and come up with the most useful visualization of that data.
    - Back-end development: take strategies that our data scientists created and turn them into code with tight performance requirements
    - Data Science: Wrote machine learning algorithms that helped predict missing attributes of our data.
  - Authored Data Visualization Suite for Massive Geospatial Dataasets
    - A toolset that allowed CI365 data scientists to visualize our data with high fidelity to identify areas of undercoverage/overcoverage.
  - SAP Multi-Factor Authentication Solutions
    - Implemented a TOTP two-factor authentication strategy that allowed us to utilize industry tools (Google Authenticator)
    - Experimented with novel mutli-factor authentication strategies that utilized push notifications and biometrics.
  - Led Code Insights Initiative
    - Code Insights is a tool based approach to improving code quality within very large codebases with many contributors.
    - Programatically converts version controlled codebases into custom Abstract Syntax Trees which are used to track KPI's for each developer.
    - Pending addition to SAP's collection of Open Source Software.
- 2014–2018 **Founder, AutoAI,** Oct 2014 – Present.
- Founded a research project at Rutgers University to create an open source self driving car platform
  - Led technical, administrative and fundraising efforts.
  - On track to be a self sufficient, well funded Student Organization at Rutgers University.
  - Provides a mechanism for new students to explore applications of advanced topics in computer science under the guidance of experienced members and Rutgers faculty.
  - Formerly known as DriveAI.

### Academics

- 2014–2018 **B.S. Computer Science, Rutgers University, New Brunswick.**
- Pursuing B.S. in Computer Science.
  - Advanced Coursework in Data Structures, Algorithms, Computer Architecture, Systems Engineering, Principals of Programming Languages, Internet Technologies, and Software Methodology.
  - Conducted an Independant Study with Professor Peter Jin (Intelligent Transportation Systems) and Professor Kostas Bekris (Artificial Intelligence) with a focus on Self Driving Cars. Where I explored ways we can use sensor fusion to bring down the cost of the AutoAI vehicles.
- 2010–2014 **Graduated High School, Wayne Hills High School.**
- During High School I began to really enjoy Math and Computer Science. I started learning Android Development and Robotics during 2010, and I worked on several small apps and websites to help the groups around me. I also completed Advanced Placement coursework in the fields of Physics, Math, Statistics and Computer Science.

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## Everything Else

**parthmehrotra.com.**

I enjoy learning new things, and many of the things I explore are realized in the form of small projects that I publish on my personal website.