



PARTH MEHROTRA

SOFTWARE ENGINEER











EXPERIENCE OVERVIEW

- SAP, Software Engineering Intern: May, 2015-Present
- AutoAI, Co-Founder: Jan, 2015-Present
- Consulted for a wide range of companies including startups, and large multinational brands.

EDUCATION OVERVIEW

- Rutgers University, B.S. Computer Science, Class of 2018
- Tutored and mentored several students in CS
- Wayne Hills High School, Class of 2014

TIMELINE

- May, 2018  Rutgers University, New Brunswick, Class of 2018
- B.S. Computer Science
 - Studied Algorithms, Data Structures, Systems Programming, Operating Systems Design, Mathematics, and Statistics
- Jun, 2017  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.
- Jan, 2017  SAP Multi-Factor Authentication Solutions
- Implemented a TOTP two-factor authentication strategy that allows us to utilize industry tools (Google Authenticator)
 - Prototyped several novel multi-factor authentication strategies based around push notifications and biometrics
- Dec, 2016  Completed Independent Study In Unmanned Vehicles
- Completed an Independent Study under Professor Peter Jin (Intelligent Transportation Systems) and Professor Kostas Bekris (Artificial Intelligence).
 - Architected and conducted research on AutoAI's second iteration of a self driving vehicle.
 - Explored the use of a combination of a low cost LIDAR and camera to create a point cloud for
- Jun, 2016  Authored Data Visualization Suite for Massive Geospatial Datasets
- For use internally within the Consumer Insights 365 Team (see below).
 - Created a toolset that allowed data scientists and team leaders to assess the quality of the data being used by SAP Consumer Insights 365.
 - Visualized geospatial data on maps, to identify areas of undercoverage, and biased data when compared to other datasets.
 - ~~Data on the scale of 100's of Gigabytes-Petabytes~~
- Nov, 2015  Launched QuickSetup.me
- Platform that allows author's of scripts to store and share their scripts in a manner that's easily accessible via commandline. (curl | sh)
- May, 2015  Joined SAP Consumer Insights 365 Team
- Contributed to several portions of SAP's Consumer Insight 365 technical stack. CI365 is a big data solution that allows market researchers to gain unique consumer insights by analyzing terabytes of mobile data at a time.
 - Front-end Development: Implemented features and fixed bugs in webapp that assists market-researchers form queries. The webapp visualized geo-spatial data by accessing our API.
 - Backend Development: Implemented new algorithms and features that helped users draw conclusions about different profiles of consumers through our API.
 - Data Science: Wrote machine learning algorithms that helped predict missing attributes of our data. Engineered tools that analyzed the current "health" of the product's data, by measuring the accuracy of our machine learning models.
- Nov, 2014  Founded AutoAI
- AutoAI is 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, funded Student Organization at Rutgers University
- Jun, 2014  Wayne Hills High School, Class of 2014
- Feb, 2014  Launched Android App for SinfulColors
- An Android App for SinfulColors' (nailpolish brand owned by Revlon) customers. The app enables users to take a picture with their phone and pick a color from the picture. The app then recommends nail polish shades that would either match or contrast with the chosen color
 - Distance in Color Lab Space Algorithm. Patent Pending: WO 2015116521 A1