

Andrea Sorrentino

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EDUCATION	M.Sc. in Computer Science - Perceptive and Cognitive Systems <i>University of Naples Federico II</i>	2015 – 2018
	B.Sc. in Computer Science <i>University of Naples Federico II</i>	2010 – 2015
AWARDS	Best Thesis in Computer Ethics , District Rotary International 2100 (ETIC 2018-19). Thesis: “ <i>Explaining Machine Learning systems responses: a black-box approach to classification problems</i> ”	
PUBLICATIONS	Explaining classification systems using sparse dictionaries. ESANN - 27th European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning, Bruges, Belgium, 2019.	
WORK EXPERIENCE	Software Engineer (Data Logging Analytics) - Internship (1 year) <i>Robert Bosch LLC & Mercedes Benz R&D North America</i>	2018 – Now
	Being part of the Autonomous Driving Project, I focus on designing, developing and testing tools to extract and analyze car status information from log files. <ul style="list-style-type: none">▪ Reduced internal dashboard loading time from ~2500ms to ~250ms by profiling database queries.▪ Enabled developers to analyze cars log files by creating a tool to perform spatial queries on them.▪ Designed and developed part of a pipeline to evaluate log files, specifically checking their integrity.▪ Improved UX and code modularity by converting an internal dashboard to a Vue.js SPA.▪ Became maintainer for parts of the testing pipeline used in production. Acquired knowledge in: Python, Javascript, Docker, Git, Postgres, PostGIS, Django, Vue.js, HTML, CSS, Agile methodologies.	
	Web Designer & Developer - Freelancer <i>www.andreasorrentino.me</i>	2013 – 2018
	<ul style="list-style-type: none">▪ Empowered local companies in Napoli(IT) to flourish by designing and developing their web presence and brand identity.	
	Full Stack Developer (4 months) <i>NM2 - www.nm-2.com</i>	2015 – 2016
	<ul style="list-style-type: none">▪ Enhanced internal dashboards in the Smart City field by introducing new features and creating state of the art web interfaces.▪ Boosted company web presence by revamping the website and improving the SEO.	
	Software Engineer - Internship (6 months) <i>SevenOne Solutions</i>	2014 – 2015
	<ul style="list-style-type: none">▪ Created an Android computer terminal for an infomobility service in the Smart City field, showing real-time data of bus drives.▪ Set up a server exposing a RESTful API. Acquired knowledge in: Android, Play Framework, Hibernate, Git, REST services, Agile methodologies.	
SKILLS	Experienced in: Python, Javascript, Django, Vue.js, Git, SQL, PostGIS, Docker, HTML, CSS. Previous experience in: Tensorflow, Java, Android, Matlab, C/C++, OpenCV.	
SELECTED PROJECTS	Paff - Android Game An Android 2D endless game, published on Google Play Store. Technologies used: Android, JLiquidFun, Java, Adobe Photoshop, Adobe Illustrator, Audacity.	
	Palmy - Android App Android app for palm reading. Based on a novel technique (Morphological TOP-HAT Filtering) for lines extraction in palmprint. Technologies used: Android, OpenCv, Java, Adobe Photoshop/Illustrator.	
	Dalty - Android App An experimental Android app to help color blind people better distinguish colors in images. Opensource on Github. Technologies used: Android, OpenCv, Java, Adobe Photoshop/Illustrator.	
LANGUAGES	Italian: native. English: Cambridge Advanced English Certificate (C1) - 166IT5885034	
SOFT SKILLS	I'm a friendly person who can contribute in creating a pleasant atmosphere within the team through a positive and constructive attitude. People describe me as “driven by patience and curiosity”.	