Tommaso Pieroncini

331328 Georgia Tech Station, Atlanta, GA 30332 - tommy.pieroncini@gatech.edu - 678-860-5195 - https://github.com/TommasoPieroncini

OBJECTIVE

Looking for a Summer 2018 internship opportunity in the fields of software development, computer architecture or cyber security. I look forward to using my problem-solving skills, knowledge and experience in a professional team environment.

EDUCATION

Georgia Institute of Technology, Atlanta, GA   *May 2019*
  ➢ Candidate for Bachelor of Science in Computer Science: **3.95 cumulative GPA**

Liceo Classico "Giovanni Berchet", Milan, Italy   *Sept 2010 – June 2015*
  ➢ Graduate with Honors (Valedictorian in the US); ECDL certificate (European Computer Driver's License)

SKILLS

Programming:	Proficient: **Java, C#, Python, C**, SQL, JavaScript, HTML, CSS**.**
	Intermediate: C++, ASP.NET, PHP, LINQ, React Native, React.
Software and Tools:	*Linux (Ubuntu, Kali), Eclipse, Android Studio, Visual Studio, AWS, LINQPad*.
Communication:	**Agile (SCRUM) development**, presentations, research papers, teamwork, tutoring.
Languages:	Italian, English. Introductory level Spanish, Ancient Greek and Latin (only written).
Affiliations:	**Grey Hat Security**, **Smart City Infrastructure**, GT Hackers, GT Residence Life Staff.

EXPERIENCE

Faculty-led Research – Professor Kishore Ramachandran, Georgia Tech College of Computing   *Fall 2017 – present*
  ➢ Exploring aspects of the innovative **Fog Computing** field to develop a faster and more resilient Internet for networked applications. Building a **C++** application to simulate activity in this network.

Software Engineering Intern – Ingenious Med   *Summer 2017*
  ➢ Full stack web developer in **C#** and **JavaScript**, implemented new features for two ASP.NET applications.
  ➢ Integrated Web API and Mobile to allow uploading of pictures and PDFs from mobile devices as documentation.
  ➢ Implemented association of labels with application entities. Doubled BI reports speed of compilation.
  ➢ Modified **SQL** scripts and stored procedures resulting in improved database performance (20% faster exec speed).

Faculty-led Research – Professor A. Orso, Georgia Tech College of Computing   *Spring 2016*
  ➢ Modified **Android** built-in 'Monkey' tool to customize generation of cross-platform compatible automated input-tests.

PROJECTS

HackGT at Georgia Tech   *Fall 2017*
  ➢ **Won first prize** at HackGT, among a total of 183 project submissions, with *framehunt*, an application that allows instantaneous searching through the frames of a video based on the contents of each frame, using **object recognition**.
  ➢ I handled video upload and YouTube links in the **React.js** front-end, I wrote the RESTful calls on the **Express.js** back-end and implemented video processing requests to the Clarifai API.

VIP at Georgia Tech – Smart City Infrastructure   *Fall 2017 – present*
  ➢ Working on developing a tool to cost-effectively and sustainably preserve and manage infrastructure assets by using 2D imaging, LiDAR and other **computer vision** and image processing technologies.

VIP at Georgia Tech – Solar Home   *Fall 2016 – Spring 2017*
  ➢ Long term project to build a smart residence with an **IoT** system responding to Atlanta's housing needs.
  ➢ Developed a mobile application in **React Native** and contributed to the backend of the system in **Python (Flask)**.

HackGT at Georgia Tech   *Fall 2016*
  ➢ Won the MLH *Hack Harassment* prize with a web application in **JavaScript** that gathers and processes information through various **APIs** (Facebook, Google Maps, Clarifai) to provide users with a report on their digital footprint.

SwampHacks at the University of Florida   *Spring 2016*
  ➢ Led a team to develop a potential-schedules generator for registering college students. I developed a **Java** and **MySQL** back-end on a Linux VM hosted by **AWS** and a front-end in **Android** and web (**JS**) to showcase the algorithm.

Other Personal Projects   *Spring 2015-Spring 2016*
  ➢ **Android** application on the Play Store 'GoShopping' with a back-end in **SQL** and server-side **PHP**.

LEADERSHIP

Georgia Tech Housing, North Avenue Apartments   *Fall 2016 - present*
Resident Advisor: *fostering environment that encourages community building, academic success, and multicultural awareness*
  ➢ Actively respond to residents' needs and situations demonstrating adaptability, commitment and enthusiasm.