

Fluent in English, French and Spanish

OBJECTIVE

Obtaining full-time employment where I can use and enhance my skills in **Front End** development, designing and implementing **RESTful APIs**, and solving challenging problems.

TECHNICAL SKILLS

Languages	Java, Python, C#, C, C++, PHP, SQL, Visual Basic, VBA, Pascal
IDEs	NetBeans IDE, Eclipse, Microsoft Visual Studio
Web	(x)HTML, HTML5, CSS, JavaScript / jQuery library, Ajax, Wordpress
Databases	Oracle, MySQL, PostgreSQL, MS Access
Methodologies	UML, Design Patterns, Agile Programming, MVC

WORK EXPERIENCE

Mar '11 – Current **Software Engineer**

SAY Media, San Francisco, California

- Develop internal and external **web applications** for support team and publishers using **Python** with **Django** framework, **jQuery** and **AJAX**, and many open source libraries
- Build **REST services** for our shared platform serving all our applications
- Make extensive use of **best practices** and **agile programming**: Kanban workflow, MVC ...

Overview of the technologies used:

- Programming languages such as Python, Java, Perl, JavaScript, CSS, etc.
- Frameworks such as Django, BackboneJS, jQuery, SQLAlchemy ...

Sep '08 – Aug '09 **Software Developer & Educator**

Process Ingénierie Etudes et Réalisations - PIER Junior Entreprise,
Paris, France

As a member of PIER, the Junior Entreprise of ESIEA, Paris, I was assigned to various duties:

Educator

Trained corporate employees from various companies on Microsoft Applications (MS Word, Excel, PowerPoint ...)

Web Developer

Co-developed a website for a real estate company that provided a user-friendly portal for tenants or renters to dispose of hassle free customized legal documents.

Overview of the technologies used:

- Admin and Client Side **coded in PHP** and **Python**
- Information and Content stored in a **MySQL database**
- User friendly forms and effects using **Javascript** with the **jQuery library**

May '08 – Aug '08 **Intern in the Department of Information Technology**
Natixis Bank, Paris, France

- Developed a Visual Basic Application implementing an Access Database for monitoring staff activity
 - Had to deal with time constraints and many non-functional requirements, this was achieved by applying a rigorous project management
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EDUCATION

Aug '09 – Dec '10 **Master of Science in Computer Science**
Illinois Institute of Technology, Chicago, IL

- Transferred from ESIEA in order to obtain a double degree; French Engineer degree and IIT Master of Computer Science
- Nine month Research Project on Internet Traffic Matrices Estimation
- Secretary of the French Association

Sep '07 – Jun '09 **Degree of French Computer Engineer**
Ecole Supérieure d'Informatique Electronique Automatique - ESIEA,
Paris, France

- A top French engineering school specializing in Information Technology and Electronics, which offers a five-year degree comparable to a Master of Science
- Ranked #1 of the Graduating Class of 2010
- Treasurer of the Humanitarian Association (Bureau Humanitaire des Eleves)
- Head coach of the college basketball team
- Completed my last year abroad at Illinois Institute of Technology to obtain a double degree

Sep '05 – Jun '07 **Two year degree in Mathematics and Physics**
Université François Rabelais, Tours, France

- Two year Degree in Mathematics and Physics comparable to a Bachelor of Science
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SCHOOL PROJECTS

May '10 – Dec '10 **Research Project: Estimation of Internet Traffic Matrices**
Illinois Institute of Technology, Chicago, IL

- Researched models to accurately estimate Internet Traffic Matrices through the use of various statistical techniques such as statistical hypothesis testing, probability distributions, goodness of fit tests ...
- Developed a toolbox to extract and manipulate data with MS Visual Studio using **C#** language and **.NET framework**
- Data modeling and estimation were handled with **Matlab**
- Project report available for download at <http://jhenault.net/files/research-project.pdf>
- Project ongoing, publication of a **research paper** is expected in the coming months, in collaboration with my professor, Dr. E. Chlebus

Jan '10 – Apr '10 **Implementation of a Database Management System**
Illinois Institute of Technology, Chicago, IL

- Developed in C++ a Database Management System with a three person team
- Advanced Algorithms were used during this project such as **B+ Trees** Indices, **Buffer Management** routines or **Query Optimization**
- **Agile programming** was preferred for the achievement of the project; as it required the release of many deliverables at various steps of the advancement

Jan '09 – Jun '09 **Website Project: Cuiz-in.com**
Ecole Supérieure d'Informatique Electronique Automatique – ESIEA,
Paris, France

- Development of a website, in **PHP language**, providing advanced services for cooking and health
- The users can register and obtain their personal daily needs in calories, set-up a personalized diet, automatically schedule their meals and more...
- The project uses a **Model-View-Controller** architecture and was developed using **agile programming** methodology
- User-friendly forms and other animated contents are implemented with **AJAX** and JavaScript library **jQuery**

Feb '08 – Jun '08 **Java Applet: Easy Warrant**
Ecole Supérieure d'Informatique Electronique Automatique – ESIEA,
Paris, France

- Developed a **Java applet** to filter warrants on the French stock exchange market
- Data (share prices, warrant details ...) were stored in a MySQL database after being fetched with a **PHP script** from Euronext website with a five minute delay from the real-time feed
- French demonstration of this applet (currently offline) can be found at [this link](#)
- The project was managed by a three person team

Nov '07 – Jan '08 **Bug Tracker Software**
Ecole Supérieure d'Informatique Electronique Automatique – ESIEA,
Paris, France

- Designed an incident reporting software with a **complex GUI**
- The software used a **role based access control** system allocating different privileges according to user roles, and communicated with a **MySQL database** to manipulate information
- The project was managed by a three person team and required an efficient task assignment
- All code was done in **Java language**

MISCELLANEOUS

Sports Very active lifestyle, basketball player, coach, and referee

Travel Fascinated to discover new cultures, lifestyles, and develop my interpersonal skills

New technologies Self-driven and constantly learning new skills and programming languages, enjoy blogging and staying up-to-date with the latest technologies