Aileen Novero

774.313.0992   novero.a@gmail.com   Cambridge, MA

LinkedIn : https://www.linkedin.com/in/aileen-novero-7a8146   GitHub : http://github.com/noveroa

EDUCATION

NORTHEASTERN UNIVERSITY, Seattle, WA / Boston, MA   **2016**
Master of Science, Computer Science   GPA 3.625
Fundamentals of Programming; Discrete Structures of Mathematics; Program Design Paradigms; Database Management Systems; Algorithms; Computer Systems; Machine Learning, Independent Project: Database/DataAnalytics/WebDevelopment, Natural Language Processing, Data Mining, Independent Project: Machine Learning in Natural Science (Government)

HARVARD UNIVERSITY, Extension School, Boston, MA   **2012**
Biochemistry, Pathophysiology, Psychology   GPA 4.0

SMITH COLLEGE, Northampton, MA   **2009**
BA, Classical Studies, Minor, Chemistry, *Summa Cum Laude*   GPA 3.97

COMPUTER SKILLS

Systems	**OS**	Windows	Linux	Ubuntu		
Languages	**Python**	JavaScript	MySql	SQLite	C	Vim Nano EMacs Scripting
Software	MicrosoftOffice Suite	Subversion	rdKit	RedCap	Anaconda	MySql	**Flask**
	OutLook	Git	OpenEye	HPC	Pandas	Oracle	**Django**
	GoogleDocs	BitBucket	SciKitLearn	Cluster	Jupyter	Eclipse	ExtJs
	Atlassian	Jira	Jira Agile		pyCharm	Jenkins	Sencha

CURRENT STATUS

Analyst II, Global Information Systems, Boston, MA   **2016 - Present**
Vertex Pharmaceuticals
- **Create/Maintain/Support of Scientific Computing Web Development Applications with AJAX web services (REST/JSON)**
- **Migrate/Update/Maintain/Support Legacy** Scientific Computing Django/Sencha Applications
- **Backend/Frontend** support and knowledge including: Python/HTML/JavaScript, Django, Flask, ExtJS, Sencha
- Server (Windows/Linux) troubleshooting and migration
- Automation of **support/maintenance** for legacy scientific Django/ExtJs applications
- Maintain, Create, Support **Database development** (Extract, Transform, and Load (ETL) skills, knowledge of ETL tools)
- Utilize Atlassian Jira for bug reports, feature upgrades, and user feature requests.
- **Communicate, support, and fulfill customer** inquiries and request.
- Awards/Honors: Two (2) Bronze VOCAP (*Vertex Outstanding Contribution Award Program)* Awards

PROJECTS/INTERNSHIPS

Computer Science

Data-Analyst/Software Engineer, IS-Sigma: ChemInformatics, Cambridge, MA   **2016**
Novartis, NIBR
- Machine Learning as related to chemical compound/drug-discovery (Python, ScikitLearn, Theanos, Lasagne)
- Parse and Analyze, Datamine legacy and current Datasets, build upon existing frameworks (Python, Data Frames)
- Virtual Enumeration/Combinatorics: Optimize Combinatorial Outcomes by use of greedy algorithm and scoring
- *Pending*: OpenSource Contributions, Published Papers, Published Posters.

Academic: Databases:
- Lead member to create **SQL/Oracle** health database to query health/history, symptoms information.

Academic: Program Design Paradigms*:*
- Pair Programming (2 different teams), Scheme, Algorithm and Coding coursework

Independent Masters Project: Flask Python Database
- Independently build Python, SQL relational database to analyze scientific abstracts, host public website via Flask, AWS

Independent Masters Project: Machine Learning in Natural Sciences / Time Series
- Machine Learning (ARMS Database) Government Work; Natural Science

PAST PROFESSIONAL EXPERIENCE

Private Tutor   **2015**
Sylvan Learning Center of Seattle, Coding, Robotics, SATprep, MathEdge, AcademicReading
- Instructed and Led Coding/Robotics courses to classes up to 8 students (LegoWeDo/Tynker**)**

Clinical Research Coordinator II / Monitor, Boston, MA   **2013 - 2014**
Massachusetts General Hospital Cancer Center Protocol Office - Multi Center
- Maintained electronic regulatory Trial Master File and Site Specific Files per federal compliance
- Collected, recorded and interpreted clinical data
- Developed, designed and reviewed electronic data capture applications.
- Created multi-center cancer-related experimental drug protocols and trained staff on usage.
- Served as key liaison between FDA, participating Pharmaceutical companies, and institutional review *boards.*

Clinical Research Assistant II, Boston, MA   **2012 - 2013**
Beth Israel Deaconess Medical Center, Gastroenterology
- Performed electronic and paper medical record reviews for clinical trial data collection.
- Digitized record data to streamline review process.
- Standardized protocols for long-term clinical trials and routine group tasks.
- Synthesized and maintained databases for research trials and targeted patient populations.

Clinical Research Assistant II , Boston, MA   **2010 - 2012**
Beth Israel Deaconess Medical Center, Anesthesia
- Developed and maintained technical respiratory recording equipment, software and hardware
- Created and computer-synced electronic recording devices for research trials.
- Collected, entered, analyzed, and interpreted data [20+ year respiratory database].

SELECTED PROFESSIONAL TRAININGS/CONFERENCES/GROUPS

- JupyterDays Boston 2016
- FastTrack to ExtJs 6 Training & Multi Device Views - Dec 2016
- Jira Agile Masters Boot Camp - Spring 2017
- Vertex iWill (Inspiring Women in Leadership & Learning Group)
- Vertex iWill Networking Focus Group member
- Vertex internal Mentorship Program participant 2017

SELECTED COMPUTER SCIENCE PROFESSIONAL AWARDS

- Bronze VOCAP Nov 2016 - Responsiveness, motivation and skill for improvements for modeling and chemistry team applications.
- Bronze VOCAP May 2017 - Collaboration with computational Chemist to create Bokeh API under time expectations.

SELECTED ACHIEVEMENTS

- *Accepted to prestigious Phi Beta Kappa Zeta Society at Smith College*
- *Received Organic Chemistry Society Organic Chemistry Award and CRC Physical Chemistry Award.*
- *Co-authored six published medical research articles with team presented at three professional conferences.*
- *Monitored, updated, translated complex medical databases, ensuring federal/institutional compliance*
- *Initiated, trained, monitored nationwide oncology and pharmaceutical research trials per regulation [FDA]*