Python Developer - Bioinformatics Development Intern Python Developer - Bioinformatics Development Intern Python Developer - Bioinformatics Development Intern Cross Plains, WI

Looking for a development position where I can utilize my computer science skills to gain valuable experience in software development while making contribution to the organization. Authorized to work in the US for any employer Work Experience Python Developer - Bioinformatics Development Intern Morgridge Institute for Research - Madison, WI November 2016 to May 2017 Involved in the entire development life cycle including requirement gathering, design, implementation, testing and delivery of applications   Worked closely with scientist to collect application requirement using Agile methodology   Followed OOP concept and programming best practice to design and implement new functions   Used Python libraries to maintain and enhance Grand Unified RNA Seq data pipeline (GUP) o Developed and deployed data retention policy using Python and Crontab to manage the data pipeline in order to minimize disk space o Used Pandas and XlsxWriter Python libraries to add an automated spreadsheet creation workflow to the pipeline for scientists' use o Used Celery framework to develop a new feature to support parallel processes and complete scientists' multiple requests simultaneously o Performed unit testing as required before release   Created and modified Python unit testing scripts to improve the testing process and efficiency including mocks and stubs   Participated in code review process and release new applications using Git technology Student Python Programmer Space Science and Engineering Center - Madison, WI February 2015 to September 2016   Worked as a student programmer for website maintenance and data archive management   Generated plots and data quality files using Pandas, Matplotlib, and other python libraries   Created and published Python FLASK APIs for scientists to view and consume the real- time climate data and data files   Updated and maintained the documentation for existing APIs using Bootstrap   Created data order forms using Node.js, REACT/FLUX, and Bootstrap   Developed user interfaces and functions using FLUX and Plotly.js to retrieve data and generate plots as required   Improved data retrieval efficiency from Postgres database using enhanced SQL queries   Involved in managing scientific data from space instruments for research Education BS in Computer Science in Computer Science UW-Madison - Madison, WI September

2014 to May 2017 High School Diploma Middleton High School - Middleton, WI 2011 to 2014 Skills Ajax (1 year), database (1 year), Postgres (1 year), Python (3 years), SQL (1 year), Java (3 years), Javascript (2 years), C (1 year), C++ (1 year) Links https://github.com/kgao9 Additional Information Solid background in Computer Science with Bachelor degree from UW-Madison (May 2017) Extensive programming experience both in school projects and in professional environments Experienced and skillful developer in Python in Unix platform for 2 years Adept and experienced in multiple programming languages Excellent working knowledge in database application development and SQL queries Experience in scientific computing and API development Solid understanding of OOP concepts & software development Life Cycle methodologies Self-Starter, quick learner and motivated team player Positive can-do attitude and pay attention to details Technical Skills Programming Languages: o Proficient in Python, Java, JavaScript o Experienced in C/C++, HTML/CSS, R, MatLab, Assembly o Experienced in Unix scripting in Bash Database skills: o Database: Postgres, MongoDB, Influx, Firebase o Basic and advanced SQL queries Software methodologies: Test-Driven Development, Agile processes Web Services Experience: RESTful, Ajax, XML, JSON Frameworks: Celery, Flask, Ionic, ReactJS, AngularJS IDE: Rstudio, Eclipse, Dreamweaver Testing skills: mocks, stubs, unit tests Version Control Tools: Git, Jira, etc. Python libraries: Pandas, NumPy, XlsxWriter, netCDF4, Psycopg2, Subprocess, matplotlib Operating System: Windows, Mac OS, Linux

Name: William Gross

Email: karen10@example.net

Phone: 676.698.6451x6227