Adam Sutton

Senior Software Engineer

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Professional Summary

Experienced Senior Software Engineer with a decade of experience in various tech industries including FinTech, Healthcare, E-Commerce, and EduTech. Proficient in Backend, Frontend, and Mobile Development with a specialized focus on Python, Django, NodeJS, Vue, Flutter, AWS, GCP, Microservices, SQL, MongoDB, and PostgreSQL. Solid understanding of the Software Development Life Cycle (SDLC), data engineering, and database designs, with a proven track record in deploying agile methodologies, proficient coding, and comprehensive testing of enterprise applications. Proficient in IDE's such as Jupiter Notebook, PyCharm, Emacs, Spyder, and Visual Studio.

Skills

- **Back End Development**

  Python, Django, Flask

- **Web scraping (Beautiful Soup | Selenium)**

- **Front End Development**

  React/Next | JavaScript (ES6+) | HTML | CSS | Figma |

   AdobeXD |

- **PostgreSQL, MySQL, MongoDB, SQLite3**

- **Mobile Development**

  Dart, Flutter, Material UI, Java

- **Docker / Kubernetes / Elasticsearch**

- **AWS, GCP, Azure, Microservices Architecture**

- **RESTful APIs**

- **Software Development and Architecture**

- **RESTful APIs**

- **Performance Optimization**

- **MacOS, Linux, Windows**

- **Knowledge of SEO**

- **Troubleshooting and Quality Control**

- **Source and Version Control: Git, GitHub, Bitbucket, DropBox**

- **Kafka**

- **Agile Processes**

- **Scrum methodology**

- **Cross-Functional Collaboration**

- **Front-End and Back-End development**

- **Mobile Development**

- **Strong Analytical skills**

- **Good Communication and Interpersonal skills**

- **Creative thinking skills**

- **Decision-making skills**

- **Problem-solving skills**

- **Technical writing**

Professional Experience

Senior Software Engineer, ArcTouch, San Francisco, CA   Nov 2020 – Present

At ArcTouch, I played a pivotal role in developing e-commerce platform and a sophisticated web scraping infrastructure to gather data from major banking websites worldwide, leading to comprehensive investment and transaction analytics. I led the design and implementation of algorithms and data structures for optimizing data processing and storage for web scraping and analytics. I also developed and maintained a custom Python package repository using Django, providing a centralized location for managing project dependencies. I actively collaborated with project leads to understand Azure services, environment deployment, and tool integration. In addition to my core development roles, I worked on optimizing system performance and managing the API lifecycle.

- Developed and maintaining scalable backend infrastructure for web scraping and analytics using Django.
- Debugged the application and following messages in log files, to figure out the error if existing.
- Designed and implementing algorithms and data structures to optimize data processing and storage for web scraping and analytics.
- Created and managed a custom Python package repository using Django, providing a centralized location for managing project dependencies.
- Experienced in implementing Elasticsearch with Django for powerful, scalable search and analytics, improving the speed and relevance of search results in web applications.
- Successfully utilized Apache Kafka for building real-time streaming data pipelines and applications, facilitating seamless data exchange between different components of Django applications.
- Designed and developed a Python-based testing framework for Django applications.
- Involved in analyzing the problems using transaction breakdown, network monitoring and resource monitoring to find the performance bottleneck.
- Proficient in integrating MongoDB with Django applications, utilizing the flexibility of NoSQL databases to meet evolving business requirements.
- Experienced in deploying Python and Django applications on both AWS and GCP, leveraging their various services for scalability, data storage, and performance optimization.
- Developed monitoring application which captures the error related data and store it in database.
- Involved in scrubbing project, which updates the existing data with hashed values.
- Reverse-engineered and re-implemented legacy backend software into Python with minimal downtime.
- Work closely with project leads to learn about the Azure services, environment deployment, and integration with tooling.
- Used GitHub for version control, enhancing team collaboration and code quality.
- Optimized system performance and managed the API lifecycle.
- Improved application performance and speed with React trending technologies such as React hooks, HOCs, Redux.

- Developed single page application leveraging TypeScript in React.
- Spearhead end-to-end web development using React to build front-end architecture, and user interface, using an iterative Scrum-based approach.
- Maintained states in the stores and dispatched the actions using Redux, Redux-Saga.
- Integrated Redux and Context API for state management.
- Developed high traffic, responsive web applications utilizing JavaScript, HTML5, CSS3, AJAX, React, Redux, React Hooks.
- Developed and maintained a large-scale e-commerce web application using React and Redux for state management.
- Designed and maintained databases using Python and developed Python based API (RESTful Web Service) using Django and PostgreSQL.

Environment: Python, Django Web Framework, DigitalOcean, PostgreSQL, JavaScript, jQuery, Visual Studio Atom, PyCharm, Jira, GIT, pybuilder, unit test, React, Redux, AWS, GCP

Full Stack Engineer, Paylocity, Chicago, IL   Nov 2018 – Oct 2020

At Paylocity, I worked on an AI-powered personalized learning platform that adapts to individual student needs and provides real-time progress tracking. I implemented the application using Python, Django Framework, and Flask, while also maintaining security with Python Spring Security. My role involved working closely with international clients on the company's most innovative projects. I utilized a microservices architecture to build backend services and REST APIs, leading to seamless integration with third-party services.

- Developed an AI-powered personalized learning platform using Python, Django Framework, and Spring IOC for real-time progress tracking and adaptation to individual student needs.
- Led a team working on innovative international clients' projects, solving key problems in education using a microservices architecture.
- Built backend services and REST APIs, and developed web applications using Python and Django, with integration to third-party services via RESTful APIs.
- Skilled in setting up and managing relational databases like PostgreSQL and MySQL, ensuring efficient data storage and retrieval in Django applications.
- Gained hands-on experience with Google Cloud Platform (GCP) services such as Compute Engine and Cloud Storage, utilizing them to optimize infrastructure and enhance application performance.
- Demonstrated ability to integrate AWS services like S3, EC2, and Lambda into Django projects, enhancing scalability and reliability.
- Worked daily on server response time optimization for mobile and web clients by refining queries in REST APIs.

Back End Engineer, Red Ventures, Chicago, IL   Mar 2016– Oct 2018

- Developed and implemented a scalable web application using Python, resulting in a significant increase in user engagement and a 20% reduction in page load time.

- Optimized existing Python codebase, resulting in a 30% reduction in memory usage and a 25% improvement in application performance.
- Collaborating with cross-functional teams, such as product managers, designers, and quality assurance, to develop and deliver high-quality software solutions.
- Optimized existing Python codebase, resulting in a 30% reduction in memory usage and a 25% improvement in application performance.
- Installed and configured pyBuilder for application builds and deploying it.
- Responsible for debugging and troubleshooting the web application.
- Developed object-oriented programming to enhance company product management.
- Wrote unit testing codes using unit test, resolving bugs and other defects using Firebug.
- Used JIRA to assign, track, report and audit the issues.

Environment: Python (Flask, Django, NumPy, pandas, TensorFlow), React (React Router, Redux, Axios), Flutter (Provider, Getx)

Front End Engineer, Block, Chicago, IL   Jul 2013 – Feb 2016

- Fixed a bug that reduced user complaints on the library website by 36%.
- Demonstrated expertise in creating architecture blueprints and detailed documentation.
- Built a feature that improved click-through rate of website by 22%.
- Facilitated in development of User Interface using HTML, CSS, JavaScript and jQuery, AJAX, JSON, PHP.
- Building components library, including Tree, Slide-View, and Table Grid.
- Experience in RESTful web services to integrate between Server side to Client Side.

Environment: HTML, CSS, JavaScript, jQuery, AJAX, JSON, PHP

Education

Bachelor of Science in Computer Science at The University of Chicago

Jun 2009 – June 2013

Language

English: Native