Eric Park

Software Engineer

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SKILLS

- **Languages**: Java, Python 3, JavaScript, TypeScript, C#, Kotlin, C, C++, HTML/CSS
- **Key skills**: .NET framework, ASP.NET , Jira/Git, React JS/Native, SSRS, Spring framework, OOP, Node.js, SQL, REST APIs, Android, Agile,
  Problem-solving, NoSQL, Organization skills, Azure, Gcp, Vue
- **Leadership**: Republic of Korea Army, Sergeant, FDC Squad Leader: Led 3 soldiers and received Division commander commendation.

PROFESSIONAL EXPERIENCE

Coway USA, Inc. **Los Angeles, CA**
Software developer *07/2023 - Present*

- Performed Agile methology for full stack development of web applications, ensuring resolution of daily equipment & quality issues using toolings to analyze effectively.
- Refactored the projects by restructuring the legacy system design and architecture, increasing usability of codes.
- Utilized Domain-Driven Design (DDD) and Object-Oriented Programming (OOP) principles to provide a structured, modular approach to organize and represent complex business requirements, incorporating key entities such as Order, Payment, etc.
- Engineered a .NET Microservice APIs to boost system scalability and modularity. With a focus on financial transactions, successfully implemented fault isolation on server-side to contain errors, reducing financial data corruption by around 30%.
- Conducted performance tuning for the Oracle database queries and procedures, resulting in an improvement of 30% in execution time and cost.
- Set up the server monitoring and logging system using Elasticsearch to track and analyze server performance, increasing visibility in server downtimes which reduced operational load of engineers by over 20%.
- Administered infrastructure like Amazon Web Service (AWS) cloud technologies for production operations.

Fasoo Inc. **Seoul, Korea**
Software developer Intern *06/2022 - 08/2022*

- Participated in a fast paced team of three interns and a senior developer to develop a comprehensive web applications testing software solution for Static Application Security Testing (SAST).
- Implemented precise time cost prediction methodologies, addressing client concerns regarding SAST completion wait times.
- Designed and built an automated web scraping software capable of gathering a large volume of High-quality Python project repositories at an average acquisition rate of 3000 files per hour which reduced QA's efforts by 20%..
- Committed in-depth parsing using ANTLR & AST structure to analyze the source codes, determining code complexity, a crucial factor affecting SAST software duration.
- Developed an execution time prediction model using an Ensemble machine learning algorithm, Random Forests, achieving an impressive accuracy rate of 92.4% by collaborating as a team, enhancing efficiency and reliability in SAST processes.

EDUCATION

Purdue University **West Lafayette, IN**
Bachelor in Computer Science (Software Engineering) *2023/05 (Spring)*

PROJECT EXPERIENCE

Innovative Environmental issue monitoring application (Argus) *08/2022 - 12/2022*

- Developed Argus, an intuitive environmental monitoring application using React JS for the frontend and Django for the backend, and securely hosted the application on AWS servers.
- Performed machine learning predictions for environmental events.
- Provided features such as real-time and historical data visualization, earthquake activity monitoring, map layers with zoom capabilities, and pin placement.
- The accuracy varied depending on whether the prediction was for the next day, next month, or an hour ahead, but it generally maintained around 85%. Additionally, an email notification feature was implemented for the user-selected regions. Predictions were available for all over the continents.