

Ashish Kumar Ghosh

Software Developer



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With over 12 years of experience, I am a highly skilled software development professional known for my expertise in software design, development, integration, and delivery. I have a strong track record of creating robust and efficient web applications. My focus is on writing impeccable code and developing innovative systems that provide seamless user experiences. As a complex problem-solver, I possess an analytical and driven mindset, enabling me to excel in meeting challenging development objectives within tight schedules.

My ultimate goal is to continuously evolve as a skilled Software Engineer and Developer. I approach every challenge with a sense of responsibility and unwavering dedication. Leveraging strong technical knowledge and skills, I strive to deliver result-oriented solutions that exceed expectations. I am passionate about staying at the forefront of technological advancements, always eager to adopt and learn new technologies to propel career forward. With exceptional technical, functional, and communication skills, I am confident in facing the demanding and rewarding path that lies ahead. Detail-oriented, organized and meticulous employee. Works at fast pace to meet tight deadlines. Enthusiastic team player ready to contribute to company success.



Skills



Software Development



Excellent



Contiguous integration and deployment



Excellent



API design knowledge



Excellent



Web Security



Excellent



Programming



Excellent



Work History



Software Developer

Cention Sdn Bhd, Kuala Lumpur

2011-05 - Current

- Designed and implemented scalable applications for data extraction and analysis.
- Developed conversion and system implementation plans.
- Tested and deployed scalable and highly available software products.
- Contributed ideas and suggestions in team meetings and delivered updates on deadlines, designs, and enhancements.
- Tested functional compliance of company products.
- In collaborative setting, our team developed backend applications using variety of programming languages including Go/Golang, PHP, Ferite (Object Oriented), and Python.
- We worked together on frontend development using JavaScript, React Js, Redux, jQuery, HTML, and CSS.
- Additionally, we collectively designed and developed database schemas using PostgreSQL and implemented optimized SQL queries. Our group collaborated on designing Parsers and Lexers to generate code from Domain Specific Language (DSL) using Yacc and Goyacc.
- Our team had extensive experience with Microservices Architecture, container-based deployment, and Distributed Systems. We collaborated on implementing Event Driven Architecture using RabbitMQ and effectively managed logs with Fluentd, Elasticsearch, Kibana, AWS Opensearch, Cloud Watch etc.
- When it came to API integration, we worked together on integrating REST API, JWT, JSON, XML, OAuth, IMAP, POP3, SMTP, RPC, gRPC, Web Sockets, and Social Media APIs.
- As a group, we implemented Object Caching mechanisms to the whole system using Redis, Redis Cluster, Memcached, and more.
- To ensure smooth web application execution, we worked collectively on configuring web servers such as Apache, Nginx, Traefik, and Reverse Proxy.
- When it came to cloud application development, we utilized services like Amazon S3, RDS, SES, Elastic Search, Kibana, Fluentd, Parameter Store, Cloud Watch, and IAM Policy.
- As a team effort, we deployed cloud applications using AWS EC2, AML, Docker, Kubernetes, Load Balancer, Security Groups, Target Groups, Auto Scaling Groups, Launch Template, EKS, ECR, AWS Lambda, Elastic Cache, RabbitMQ, and Route 53.
- Our group also excelled in Cloud Architecture Design, Cloud Security, Distributed Systems, Microservices Architecture, and SAAS.
- We followed Agile Methodology for the software development life cycle, conducting Daily Standup meetings and Sprint Meetings using tools like Jira and Slack.
- Collaboration was key as we utilized version control systems such as Git, GitHub, Bitbucket, GitLab, and GitHub Actions.
- In our team, we planned monthly releases and regularly held bi-weekly meetings with partners and customers to ensure effective communication.
- Troubleshooting, debugging, and fixing issues in production environments was a collective effort, with each team member contributing their expertise.
- Lastly, our group developed and deployed applications on open-source Linux platforms such as Ubuntu, CentOS, and Red Hat.

Software Developer

SnT Trading Private Limited, Dhaka

- Contributed ideas and suggestions in team meetings and delivered updates on deadlines, designs, and enhancements.
- Authored code fixes and enhancements for inclusion in future code releases and patches.
- Translated technical concepts and information into terms parties could easily comprehend.
- Tested and deployed scale-able and highly available software products.
- Tested functional compliance of company products.
- Designed and implemented scale-able applications for data extraction and analysis.
- Analyzed work to generate logic for new systems, procedures and tests.
- In a collaborative team effort, we developed web applications using PHP (Object Oriented). Our group also worked together on creating frontend applications using JavaScript, jQuery, HTML, CSS, and other relevant technologies.
- As a team, we collectively designed and developed the database schema using the MySQL database and implemented business logic through SQL queries.
- Additionally, we collaborated on configuring Apache web server to effectively run these web applications.
- Throughout the development process, our team worked on the Microsoft Windows operating system.



Professional Skill

In my extensive career as a Software Developer, I have mastered a wide range of programming languages and tools. Some of my notable skills include:

- Go/Golang: I am well-versed in leveraging the power and efficiency of Go to build scalable and high-performance applications.
- PHP: With a deep understanding of PHP, I have developed dynamic and feature-rich web solutions.
- Ferite: My expertise in Ferite enables me to create secure and reliable software solutions.
- JavaScript, React Js, Redux: I excel in frontend development, utilizing JavaScript, React Js, and Redux to build interactive and user-friendly interfaces.
- Linux Bash Script, Python, Docker: I am skilled in writing Bash scripts, Python, Docker to automate tasks and enhance productivity in Linux environments.
- Redis, MySQL, PostgreSQL: I have extensive experience working with various databases, including Redis, MySQL, and PostgreSQL, ensuring efficient data management.
- Git: Proficient in version control with Git, I am adept at collaborating with teams and managing code repositories.
- Microservices, AWS: I possess strong knowledge of developing application by following microservices architecture and deploying

applications on AWS, ensuring scalability and reliability.



Additional Skill



Programming Language and Tools

Go/Golang, Ferite, PHP, Shell Script, Python.

Java Script, JQuery, React Js, Redux.

PostgreSQL, MySQL, SQLite.

Redis, Redis Cluster, Memcached.

Docker, Packer, GitHub Actions.

Agile Methodology, Jira, Slack.

Git, GitHub, Bitbucket, GitLab.

Apache, Nginx, Traefik, Docker.

HTML, XML, JSON, CSS.

Java, C, C++, C#.

Cloud Computing

AWS EC2, S3, RDS, EKS, ECR, IAM.

AWS Lambda, Elastic Search, Cloud Watch.

AWS Elastic Cache, Code Deploy, Cloud-Front.

AWS Auto Scaling Group, Target Group, Load Balancer.

Networking

AWS VPC, Subnet, Security Group, Nat Gateway.

AWS Route 53, Configure DNS Server.

Configuring Mail Server, Firewall, VPN.

Operating System

Linux: CentOS, Ubuntu, Amazon Linux 2.

Windows: XP, Windows 7-11.



Experience



12+ years (May'2010 – Present).



Education



Bachelor of Science: Computer Science And Engineering

Khulna University Of Engineering And Technology - Khulna, Bnagladesh.

Completed Bachelor Degree in Computer Science and Engineering in 2010



High School Diploma

Daulatpur Day & Night College - Daulatpur, Khulna, Bangladesh.



High School Diploma

Affiluddin High School - Daulatpur, Khulna, Bangladesh.



Languages

2006-03 - 2010-03

2003-06 - 2005-09

2001-01 - 2003-05



Professional Work

Cention Contact Center

Cention Contact Center is a web-based application designed for efficient handling of various tasks and requests. The system seamlessly integrates incoming errands from email, Facebook, Twitter, chat, SMS, social media, and fax. Upon receiving an errand, the application automatically scans the existing database for potential solutions. The relevant information is then sent to the operator responsible for processing the task.

Using the 3C platform, users can create a comprehensive library of structured questions and answers. This feature eliminates the need to repeatedly document responses and allows for a streamlined handling of up to 80% of all incoming errands. The system incorporates a powerful search engine that enables efficient retrieval of historical data related to task handling. It also facilitates custom exports, generates reports, and provides statistical insights.

In addition to efficient task management, the system supports automated email campaigns and offers detailed campaign reports. It also boasts robust real-time chat services to enhance communication with customers. Furthermore, the system can generate well-formatted reports spanning long periods, meeting all customer requirements. With its capabilities, the system effectively supports thousands of customers on a daily basis.

Kommuninfo

Kommuninfo has developed a proposal tracking tool for customers to efficiently manage and monitor service offerings. The system allows for the insertion of proposals, representing services/items offered by different entities, through manual or automated methods. The administrative component maintains customer profiles and facilitates customer login requests. The sales system accesses customer data through a public interface, granting access to the proposal tracking tool. The sales support system continuously updates the new system with data from customer cards, including lists of expired and new customer accounts, as well as the number of available proposals, ensuring accurate proposal creation and updates at any time.

Kontaktdata

Kontaktdata, a subsidiary of Swedish Company, specializes in email marketing and newsletters. Their products and services have been proven to assist numerous European companies in enhancing their business interactions with other companies. Through Kontaktdata, businesses can continuously attract new customers throughout the year. Their system intelligently imports email addresses collected from various categories. Customers can select specific categories to obtain email addresses for

their email campaigns. Subscriptions to the system are available for durations ranging from 3 to 12 months, with corresponding payment options. Customers also have the option to upload their own personal email address lists for their campaigns.

The Export site functions as the administrative portal for the Kontaktdata application. On this site, administrators create exports based on the selected categories chosen by customers. These selection categories are generated by customers on their respective sites.

Cention website

Cention aims to be at the forefront of contact center software providers, offering comprehensive systems that enhance both internal operations and customer communication. The Cention website serves as a platform to showcase all relevant product information, including details about the latest versions and associated benefits. Additionally, the website integrates a chat feature, enabling seamless customer support and access to contact information. Cention proudly collaborates with over 50 partners, and their information is readily accessible on the website.



Academic Project and Thesis



Car tracking system by GPS

The application involves locating a car through a mobile device. The mobile device is connected to a microcontroller device, which in turn is connected to a GPS module. When the mobile device receives an SMS, it sends a request code to the microcontroller. The microcontroller then retrieves the relevant data from the GPS module and sends it back to the mobile device. This system is implemented using components such as the microcontroller, GPS module, data transfer cable, and the mobile device. The code for this application is written in assembly language.

Data simulation by Data Warehousing

Data warehousing is a powerful software solution designed to store and analyze vast amounts of historical data. By leveraging this data, the software can make informed decisions about the future. It incorporates intelligent algorithms and logic to generate reports, display statistics, and facilitate smart decision-making. The implementation of this software is accomplished using the C# programming language and tools such as Microsoft Visual Studio.

Online Shopping

This application revolves around the online buying and selling of various essential items. It primarily functions as an e-commerce website offering a wide range of products along with comprehensive product details. Users

have the flexibility to browse through the available products and place orders online. The implementation of this application involves multiple programming languages, including HTML, XML, JavaScript, CSS, PHP, AJAX, jQuery, and a MySQL 5.0 database management system.

The safe AC power meter

We have developed a device that effectively measures and visualizes various aspects of AC power while also serving as a computer-controlled remote switch. The AC power meter employs a microcontroller and a current sensor device. The results are displayed on a connected display through the microcontroller. The sensor devices capture the current data and transmit it to the microcontroller, which is programmed using the C language to perform calculations and generate the desired output. The display then showcases the measured power results. The microcontroller is connected to a computer via a serial port, enabling data transfer to the computer. To present the overall output and statistics, specialized software written in C# is utilized on the computer. This comprehensive solution combines both C# and C programming languages for the computer software and microcontroller implementation, respectively.



Personal Interest

- I enjoy engaging in coding and problem-solving activities, as they provide opportunities for personal growth and learning.
- Exploring and discussing new technologies also fascinates me, as it allows me to stay updated in the ever-evolving field of technology.
- In my free time, I am an avid computer gamer and enjoy exploring various social media platforms.
- I find relaxation and entertainment in listening to songs, watching movies, and browsing YouTube for interesting content.
- Additionally, I have a keen interest in reading books, newspapers, and tech magazines to expand my knowledge and stay informed about the latest trends.
- When it comes to physical activities, I enjoy playing sports such as cricket, football, basketball, and badminton, as they provide both recreation and exercise.



Reference

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