

Varun Agrawal

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Languages

Node.js • Java • PHP • React • TypeScript • SQL • NoSQL

Technologies

DevOps • Linux • AWS • Docker • Git • RegExp • ANTLR • Algorithms

Work Experience

- | | | |
|--|-------------------------|--------------------------------|
| Senior Software Engineer | Freelance | Remote • 2022 – Current |
| <ul style="list-style-type: none">Successfully implemented new backend features using NX, TypeScript, Node.js, Nest.js, and Prisma.Created reusable frontend components in React, Next.js, and MUI, boosting development efficiency. | | |
| Senior Software Engineer | Dot Traffic | Remote • 2019 – 2022 |
| <ul style="list-style-type: none">Single-handedly took over an unmaintained project, overseeing both full-stack development and DevOpsSuccessfully led a website overhaul over a period of 2 years, driving the transition to a refreshed design.Actively participated in recruitment efforts, conducting interviews, and mentoring junior developers. | | |
| Mid-Level Software Engineer | 3T Software Labs | Germany • 2017 – 2019 |
| <ul style="list-style-type: none">Developed code generator to transpile MongoDB queries to PHP, C#, Node.js, Python, and Ruby code.Successfully led a project to migrate the entire codebase from MongoDB Java Driver API 2.x to 3.x.Implemented ANTLR parser in Java for auto-formatting of SQL and Mongoshell code.Provided technical support for enterprise customers. | | |
| Software Engineer | parcelLab | Germany • 2016 – 2017 |
| <ul style="list-style-type: none">Developed a Node.js module leveraging historical data to accurately predict parcel delivery time.Dockerized service workers on AWS, optimizing scalability and reducing operational costs.Transferred high-load worker threads to AWS Lambda scripts for enhanced scalability and efficiency. | | |

Achievements

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|---|-------------|
| Google Code-In | 2011 |
| <ul style="list-style-type: none">Contributed to various open-source projects by implementing innovative features during High School. | |
| Google Summer of Code Developer | 2014 |
| <ul style="list-style-type: none">Independently released SupportFlow, a help-desk ticketing system for the WordPress internal team. | |
| Ethical Hacking | 2020 |
| <ul style="list-style-type: none">Discovered a critical vulnerability that exposed confidential client data within a leading stockbroker. | |

Side Projects

- Varal WAMP**
 - Developed a user-friendly GUI application in Visual Studio, allowing streamlined administration of the WAMP stack.
- Cloud Ping Test**
 - Developed a tool for comparing ping time across multiple cloud providers, resulting in informed business decision-making.
 - Successfully attracted over 100K+ unique annual users, demonstrating its usability and popularity.
- Mosh 2**
 - Developed Mosh 2, a wrapper for Mosh (Mobile Shell) in Bash scripting language.
 - Implemented a powerful session caching mechanism and SSH Multiplexing for improved performance and efficiency.