Alexander Cheprasov

Principal Software Developer

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▼ Summary

Highly motivated seasoned and proactive software engineer with 18 years of rich experience in web software development in successful tech companies, with strong proficiency with highload and performance architectures, data structures, algorithms, information security and so on.

▼ Skills

JavaScript, TypeScript, Node.js, React, npm, AngularJS, Webpack, Flow, Jest, Enzyme, jQuery, Grunt, GraphQL, Pixi.js, Go-lang, Nginx, Docker, Kubernetes, MySQL, Redis, Memcached, ZooKeeper, HTML5, CSS3, LESS, SASS/SCSS, BEM, Emotion CSS, PHP 7, PHPUnit, Zend Framework, Laravel, Git, Unix, AWS, Apache, Graphite, Grafana, ElasticSearch, Kibana, Ansible, Sanity, OOP, MVC, SOA, SOLID, TDD, BDD, REST, APIs, Protobuf, Highload, Microservices, Data Structures, Algorithms, Information Security, Jira, Slack, ClickUp.

▼ Right to work

I have a British citizenship in the UK and I may work in any business or profession without any restrictions (I do not require any visa or sponsorship).

▼ Experience

▼ **Senior Software Engineer** at **Valstro (UK) Ltd**

December 2022 – Present (1 year 3 months) / London, UK

Tech Stack: TypeScript, JavaScript, Node.js, React, NestJS, GraphQL, RxJS, pnpm, nx, Webpack, AWS, Kafka, PostgreSQL, MongoDB, Docker, Kubernetes, Jest, Lint, Storybook, Cucumber, HTML, CSS, Notion, Slack.

Duties:

- Building applications/services from scratch
- Participating in architecture, technology selection and design
- Building, testing, deploying and supporting the software
- Collaborating with other teams, including Product Management, and participating in the definition and improvement of processes and tools
- Learning and Teaching, Mentoring and Coaching new hires, keeping up with the latest technologies and sharing my experiences

▼ **Principal Software Engineer** at **Autone Trading Limited**

July 2022 – July 2022 (less than a month) / London, UK

Tech Stack: TypeScript, JavaScript, Node.js, React, PostgreSQL, npm, Webpack, AWS, DynamoDB, Lambda, RDS, S3, Jest, Lint, HTML, CSS, SASS, Emotion CSS, Material-UI, Jira, Slack.

Duties:

- Working closely with the tech, product & strategy teams to proactively scope, build & improve company's platform.
- Build, maintain, and support web applications and integrations using React, Node.js, Postgres and related technologies powered by AWS.
- Focus on delivery while leading improvements in internal processes, practices, and tools.

▼ **Senior Software Developer** at **LoveHolidays (WANT2BTHERE LTD)**
April 2021 – January 2022 (10 months) / London, UK

Tech Stack: TypeScript, JavaScript, Node.js, React, Preact, GraphQL, Sanity, Firestore, Go-lang, npm, Kubernetes, Docker, Google Cloud, Jest, Lint, Storybook, Lighthouse, HTML, CSS, SASS, Emotion CSS, Bootstrap, Webpack, ClickUp, Slack, Figma.

Duties:

- Developed new web projects and supported current projects of the company.
- Built and maintained various tools that facilitate and support the business.
- Developed new React components, React hooks and so on.
- Improved and maintained backend microservices.
- Simplified algorithms complexity & fixed code performance issues.
- Optimised applications' performance and responsiveness for browsers and mobile devices.
- Refactored legacy code of existed projects.
- Did presentations inside the company about performances and issues in JS.
- Reviewed projects architecture & code.

▼ **Senior Software Developer** at **Ksubaka Ltd**
September 2018 – April 2021 (2 years 7 months) / London, UK

Tech Stack: JavaScript (Native/Vanilla, ES6, ES7, ES.Next), TypeScript, React, AngularJS, Lodash, Flow, Node.js, npm, Jest, Enzyme, Sinon, HTML, CSS, SASS, LESS, Bootstrap, Webpack, Grunt, Jira, Slack.

Duties:

- Developed new web projects of the company and optimised performance for existed projects.
- Developed solution able to aggregate and visualize data.
- Built and maintained various tools that facilitate and support the business.
- Developed new React components, React hooks and AngularJS directive.

- Optimised applications' performance and responsiveness for browsers and mobile devices.
- Refactored legacy code of existed projects.
- Reviewed code, interviewed new candidates.
- Coached less experienced staff members.

▼ Senior Software Developer at Badoo Trading Ltd.

October 2016 – June 2018 (1 year 8 months) / London, UK

Tech Stack: PHP 7.0 - 7.1, PHPUnit, Blitz, Protobuf, MySQL, Memcached, Nginx, Git, AWS, Pinba, Jira, HipChat.

Badoo is the largest dating network in the world. With 370 million users across 190 countries and 450 employees worldwide, it provides the best technology for people to meet, because happiness is better shared. Each day more than 400,000 people sign up for a Badoo experience; users send over 350 million messages and 10 million photos are added to the Badoo platform. Users spend an average of 1.8 hours daily on the Badoo experience, for a total of over 12 billion swipes per day.

Duties:

- Developed new features and maintained exists functionality for users' profiles, photos, verification service, external and internal projects of the company.
- Designed DB & workflow architecture for new features.
- Developed of proxy service for avoiding connections blocks.
- Participated in the creation of a new service for searching for lookalikes by an uploaded photo.
- Implemented A/B tests, GDPR, and so on.
- Worked on optimisation project for highload.
- Wrote tests, reviewed code & PR.

▼ Senior Software Developer at Currency Solutions Ltd.

September 2015 – September 2016 (1 year 1 month) / London, UK

Tech Stack: PHP 5.5 - 5.6, PHPUnit, Zend Framework, JavaScript, ES6, React, jQuery, TypeScript, Grunt, Babel, Jest, MySQL, Redis, Memcached, Nginx, Docker, Git, Gitlab, AWS, Jira, Bitbucket, Bamboo.

Currency Solutions is a rather large Foreign Exchange firm, that unlike other companies, that usually handle both smaller and larger payments, focuses only on large transfers.

Duties:

- Developed web service (JavaScript + React) for global money transfer.
- Developed backend for the transfer service, REST API.
- Designed DB architecture and optimised highload performance.
- Wrote tests, reviewed code.
- Supported CRM system of the company and created new features for it.

▼ Senior Software Developer at Topface Ltd.

November 2013 – August 2015 (1 year 10 months) / St. Petersburg, Russia

Tech Stack: PHP 5.3 - 5.4, PHPUnit, Blitz, MySQL, Redis, Memcached, ZooKeeper, Node.js, Nginx, Docker, Lua, Git, Gitlab, Redmine.

Topface is world famous social network for datings with more than 90 million users. Development for highload: ~90rps, ~1.5 mln users daily.

Duties:

- Developed users' activity system and DB architecture (such as messages, sympathies, gifts and so on) for increasing stability, safety, performance, failover and highload.
- Developed of the intellectual system for counting of users' activity, with automatic recalculation in case of failures.
- Implemented A/B tests and monetization experiments.
- Developed backend for highload.
- Wrote tests, reviewed code.

▼ Senior Software Developer at StarLine

September 2012 – November 2013 (1 year 2 months) / St. Petersburg, Russia

Tech Stack: PHP 5.3, Protobuf, MySQL, Redis, Memcached, Nginx, Apache, JavaScript, jQuery, HTML, CSS, Canvas, Google Maps API, Yandex Maps API, SVN, Redmine.

StarLine is a service for transport monitoring and remote alarms, and sensors control.

Duties:

- Developed back-end and front-end of service for monitoring cars by GPS data.
- Developed new algorithms for analysis cars' tracks and removing noise GPS-data.
- Coached less experienced staff members, reviewed code.
- Interviewed new candidates for vacancies of the company.

▼ Full Stack Web Developer at M2C ltd

February 2008 – September 2012 (4 years 7 months) / Murmansk, Russia

Tech Stack: PHP, MySQL, Oracle DB, Memcache, Apache, JavaScript, jQuery, Canvas, HTML, CSS, Flash, ActionScript, Adobe Photoshop, 3D Studio Max.

M2C ltd is the largest provider of Internet, digital television and telephony in Murmansk.

Duties:

- Developed and maintained of internal & external services of the company.
- Integrated company's billing with external payment systems.
- Developed web-service for managing digital television provided for clients.
- Developed advertising management and SMS notification systems.

- Designed database architecture.
- Developed flash applications.
- Worked on tech development for a new TV channel of the company.
- Created a lot web-sites for the company needs.

▼ **Full Stack Web Developer** at **Freelance (self employed)**

January 2002 – August 2008 (6 years 7 months) / Murmansk, Russia

Tech Stack: PHP, MySQL, JavaScript, HTML, CSS, Flash, ActionScript, Adobe Photoshop, 3D Studio Max.

▼ *Education*

Master's degree in Criminal Law, Justice and Corrections

Murmansk Humanities Institute (MHI), Murmansk, Russia, 2002 – 2007

▼ *Personal Projects*

▼ ### Open Source Projects

Hurray! Today according the official statistics I have more than 1.68 million downloads of my open source projects. 🎉

Tech Stack: TypeScript, JavaScript, Go-lang, PHP, Redis and so on.

Github: github.com/cheprasov
Packagist (PHP): packagist.org/packages/cheprasov/
NPM (JS): www.npmjs.com/~cheprasov

▼ ### Daily Licences Checker

Service observes status for organisations licensed to sponsor workers on the Worker and Temporary Worker immigration routes

Tech Stack: TypeScript, NodeJS, PHP, MySQL, Nginx, HTML, CSS.

Personal project I made at free time. licensed-sponsors-uk.com/
The project is created for helping Tier 2 & 5 (Skilled Workers) visa holders to be operatively informed about their company's sponsor licence has changed or expired.

▼ ### Magnetic Chessboard with Movable Pieces on Etsy

The modern vertical chess set looks like a hybrid of a beautifully framed picture and amazing intellectual game. All pieces on the board are movable.

Tech Stack: Blender, Adobe Illustrator, Affinity Photo, Affinity Designer.

This project was made by me and for my personal use, based on my idea and needs. But after several friends' requests I made a decision to publish the project on etsy and make it for people

who would like to have the same chess set. Welcome to my shop:
www.etsy.com/uk/shop/AlexChess

▼ Game "Mazay Mahjong and bunnies" v.1

I do love mahjong and I created one of the variations of the popular mahjong game for social networks like Facebook and VK. Also, I have in development a new version of the game for mobile devices.

Tech Stack: PHP, Redis, Memcache, MySQL, Nginx, JavaScript, jQuery, Canvas, HTML, CSS, Flash, ActionScript, Adobe Photoshop.

Personal project I made at free time.
Game is here: apps.facebook.com/mazay_mahjong/ or mahjong-fb.cheprasov.com/
Please see video here: www.youtube.com/watch?v=6V_0wZZdJLA
New version 2 is in development ts-game-mahjong.pages.dev/
I designed a game concept, elements and levels of the game, and I selected the music. I was in collaboration with the artist about ideas and concepts, analyzed logic and users' behaviour. I edited the received images and the design of the game, I designed the system architecture for highload, and wrote front-end and back-end code.

▼ *Honors & Awards*

▶ I have got 3 years in row License Certificate from JetBrains for the contribution and development to open source PHP projects

by JetBrains in July 2018, July 2019, June 2020

▶ The Most Hard-Working Developer

by Topface Developer Awards in September 2014

▶ The best site in the category Infa of the Murmansk region

by Department for Youth Affairs of the Murmansk region + 4erdak.ru in December 2007

▶ The best corporate site of the Murmansk region

by Department for Youth Affairs of the Murmansk region + 4erdak.ru in December 2007

▶ The best corporate site of the Murmansk region

by Department for Youth Affairs of the Murmansk region + Arctic Media Group in December 2006

▶ The best site in the category Anfas of the Murmansk region

by Department for Youth Affairs of the Murmansk region + Arctic Media Group in December 2006