

# Alexander Cheprasov

Principal Software Developer

+44 789 879 36 17

[acheprasov84+job@gmail.com](mailto:acheprasov84+job@gmail.com)

[linkedin.com/in/alexandercheprasov/](https://www.linkedin.com/in/alexandercheprasov/)

[github.com/cheprasov](https://github.com/cheprasov)

SW6, London, United Kingdom

## ▼ 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**

VALSTRO

December 2022 – Present (1 year 5 months) / London, UK

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

#### **Duties & Achievements:**

- Implemented a lot of business logic around Orders flow, the key feature of the company's trading platform.
- Wrote key global feature for distribution, execution and propagation Trades across the trade platform.
- Implemented most complicate business feature about Execution Bust for Orders Trades.
- Developed feature of async response for each operation handler to UI via WebSocket.
- Created new input elements, forms, and other complicated React components, hooks for UI.
- Fixed DB indexes for better performance of Orders.
- Created complex script for generation AVRO scheme by TypeScript classes.
- Improved E2E tests and made output structured and readable, it helps developers to find issues much faster.
- Created 2 chrome extensions for improving work of developers in the company. (1. auto authorisation for GraphQL playground helps to avoid annoying manual process of coping new tokens every 5 mins. 2. Improved GitHub features for the company repos: each PRs has quick links to UI, GraphQL playground, logs, improved CI features).
- Built new internal services and refactored legacy code.
- Participated in architecture, technology selection and code structure.
- Collaborated with other teams, including Product Management, and participated in the definition and improvement of processes and tools.
- Learned and Taught, Mentored and Coached new hires, kept up with the latest technologies and sharing my experiences.

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## ▼ 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 & Achievements:

- Improved DB base structure and data structure for performance and much better readability for developers.
- Implemented new features to the company's platform.
- Migrated projects of the company from JavaScript to TypeScript.
- Worked closely with the tech, product & strategy teams to proactively scope, build & improve company's platform.
- Improved and maintained existing web application using React, Node.js, Postgres and related technologies powered by AWS.
- Focused on delivery while leading improvements in internal processes, practices, and tools.

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## ▼ 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 & Achievements:

- Fixed many bugs and improved performance at key microservice for working with Users session data (golang)
- Developed new platform for searching holidays and hotels.
- Created new input elements, forms, and other complicated React components, hooks for UI.
- Simplified algorithms complexity & fixed code performance issues.
- Optimised applications' performance and responsiveness for browsers and mobile devices.
- Refactored legacy code of existed projects.
- Helped other developers better understand performances and issues in JavaScript / TypeScript.
- Reviewed projects architecture & code.

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## ▼ 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 & Achievements:

- Worked like a lead developer for creating new greenfield project with amazing success, see [cloudshelf.ai](https://cloudshelf.ai)
- Optimised applications' performance for slow android devices, browsers and mobile devices.
- Developed solution for aggregate and visualize data.
- Built and maintained various tools that facilitate and support the business.
- Developed new React components, React hooks and AngularJS directive.
- Refactored legacy code of existed projects.
- Reviewed code, interviewed new candidates.
- Coached less experienced members.

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## ▼ 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 & Achievements:**

- 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 based on AI data.
- Implemented A/B tests, GDPR, and so on.
- Worked on optimisation project for highload.
- Wrote tests, reviewed code & PR.

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#### ▼ **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 & Achievements:**

- 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.

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#### ▼ **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 & Achievements:**

- 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.

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#### ▼ **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 & Achievements:**

- 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.

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▼ **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 & Achievements:**

- 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.

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▼ **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.

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▼ *Education*

**Master's degree in Criminal Law, Justice and Corrections**

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

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▼ *Personal Projects*



**Open Source Projects**

Hurray! Today according the official statistics I have more than 1.73 million downloads of my open source projects. 🎉

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

Github: [github.com/cheprasov](https://github.com/cheprasov)

Packagist (PHP): [packagist.org/packages/cheprasov/](https://packagist.org/packages/cheprasov/)

NPM (JS): [www.npmjs.com/~cheprasov](https://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/](https://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.

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- ▼  **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](https://www.etsy.com/uk/shop/AlexChess)

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- ▼  **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/](https://apps.facebook.com/mazay_mahjong/) or [mahjong-fb.chepirasov.com/](https://mahjong-fb.chepirasov.com/)







Please see video here: [www.youtube.com/watch?v=6V\\_0wZZdJLA](https://www.youtube.com/watch?v=6V_0wZZdJLA)

New version 2 is in development [ts-game-mahjong.pages.dev/](https://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.

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▼ *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
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- ▶  **The Most Hard-Working Developer**  
by Topface Developer Awards in September 2014
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- ▶  **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
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- ▶  **The best corporate site of the Murmansk region**  
by Department for Youth Affairs of the Murmansk region + 4erdak.ru in December 2007
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- ▶  **The best corporate site of the Murmansk region**  
by Department for Youth Affairs of the Murmansk region + Arctic Media Group in December 2006
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- ▶  **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