Alexander Cheprasov

Engineering Leader | Tech Lead | Principal Engineer

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▼ *Summary*

Software engineering leader with over 19 years of experience, building scalable products from concept to market and contributing to open-source communities with libraries like @cheprasov/jsbt. I specialize in highload architectures, end-to-end delivery, and mentoring, ready for global remote roles or relocation.

▼ *Skills*

TypeScript, JavaScript, Node.js, React, npm, AngularJS, Webpack, GraphQL, Go-lang, Nginx, Docker, Kubernetes, MySQL, Redis, PostgreSQL, MongoDB, HTML5, CSS3, SASS/SCSS, BEM, PHP 7, PHPUnit, Zend Framework, Git, AWS, Grafana, ElasticSearch, Kibana, OOP, MVC, SOA, SOLID, REST, APIs, Protobuf, Highload, Microservices, Data Structures, Algorithms, Information Security, Jira, Slack, ClickUp, Leadership, Mentoring, Architecture Design, Open Source Development.

▼ *Right to work*

British citizen with full UK work rights, open to remote work globally and relocation for the right opportunity.

▼ *Experience*

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

December 2022 – Present (2 years 11 months) / London, UK

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

Duties & Achievements:

- Implemented architecture design and technology selection for core trading platform features.
- Implemented complex business logic for Orders and Trades, enhancing platform scalability.
- Architected internal services and refactored legacy code for maintainability.

- Developed advanced React components and Chrome extensions to improve UI and workflows.
- Optimized database performance and E2E tests for faster issue detection.
- Contributed to team knowledge sharing and best practices in performance, TypeScript, React, and GraphQL.

▼ **Founder & Technical Lead (Entrepreneurial Side Project)** at **HouseHub.uk**

July 2022 – Present (3 years 3 months) / London, UK

Tech Stack: TypeScript, JavaScript, Node.js, Go, React, MySQL, Redis, Cloudflare, Docker, Nginx, Git, HTML, CSS, SASS, Jest, Grafana, Sentry.

HouseHub.uk is a property listing platform for the UK market, launched as an MVP and actively developed to enhance features, supporting 77,048 active property listings and 264,902 archived (sold or withdrawn) as of October 2025.

Duties & Achievements:

- Architected and built a scalable web platform from concept to MVP, owning frontend and backend development.
- Scaled MVP to handle huge active listings, driving significant market engagement.
- Designed a robust architecture with TypeScript, Node.js, and MySQL for high-volume property data.
- Optimized database queries for fast property search and high user traffic.
- Managed servers infrastructure with Docker and Nginx for seamless deployment.
- Developed REST APIs and third-party integrations for real-time property data.

▼ **Founder & Technical Lead (Entrepreneurial Side Project)** at **Licensed-Sponsors-UK.com**

July 2020 – Present (5 years 4 months) / London, UK

Tech Stack: TypeScript, Node.js, MySQL, Nginx, HTML, CSS, Git, Cloudflare.

Licensed-Sponsors-UK.com monitors UK sponsor licenses for visa holders, achieving 76K active users and 68K new users in 90 days (October 2025), with 2.6M events and 3m 34s average engagement.

Duties & Achievements:

- Single-handedly built a service to monitor and notify users about UK sponsor license changes.
- Designed a high-performance backend with TypeScript, Node.js, PHP, and MySQL.
- Developed automated data scraping and validation for real-time updates.
- Created a responsive, accessible frontend with HTML, CSS, and TypeScript.
- Managed the full project lifecycle, from requirements to deployment.
- Optimized database and APIs for scalability and data protection compliance.

- Drove user growth: 76K active users, 2.6M events in 90 days (October 2025).

▼ **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, AWS, DynamoDB, Lambda, Jest, HTML, CSS.

Duties & Achievements:

- Led process improvements and architecture redesign for trading platform efficiency.
- Collaborated with cross-functional teams to scope and build new features.
- Migrated projects to TypeScript and optimized React/Node.js applications.

▼ **Senior Software Developer** at **LoveHolidays (WANT2BTHERE LTD)**

April 2021 – January 2022 (10 months) / London, UK

Tech Stack: TypeScript, JavaScript, Node.js, React, Preact, GraphQL, Go-lang, Kubernetes, Docker, Google Cloud, Jest, Storybook, Lighthouse, HTML, CSS, SASS.

Duties & Achievements:

- Optimized architecture and code for a scalable holiday search platform.
- Mentored developers on JavaScript/TypeScript performance best practices.
- Developed React components and microservices with Go-lang for user session data.
- Refactored legacy code and improved performance for mobile users.
- Reviewed and improved project architecture and code quality.
- Simplified complex algorithms to enhance platform performance.

▼ **Senior Software Developer** at **Ksubaka Ltd**

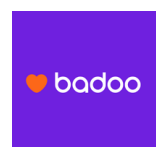September 2018 – April 2021 (2 years 7 months) / London, UK

Tech Stack: JavaScript, TypeScript, React, AngularJS, Node.js, npm, Jest, Enzyme, HTML, CSS, SASS, LESS.

Duties & Achievements:

- Led development of Cloudshelf.ai, driving it to successful launch.
- Coached junior developers and conducted code reviews.
- Optimized applications for low-end Android devices and browsers.
- Built data visualization tools and React components.

▼ **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, Protobuf, MySQL, Memcached, Nginx, AWS, Jira.

Badoo is the largest dating network, serving 370M users across 190 countries.

Duties & Achievements:

- Designed scalable database architectures for highload features.
- Contributed to AI-based photo lookalike search service.
- Implemented GDPR compliance and A/B tests.
- Developed proxy service and user profile features.

▼ **Senior & Full-Stack Developer (Earlier Roles)** at **Currency Solutions, Topface, StarLine, M2C, Freelance**

January 2002 – September 2016 (14 years 9 months) / London & St. Petersburg & Murmansk, UK & Russia

Tech Stack: PHP, JavaScript, TypeScript, React, MySQL, Redis, Oracle DB, Nginx, Docker, AWS, HTML, CSS.

Developed highload systems and web services across fintech, social networking, and telecom.

Duties & Achievements:

- Architected backend systems for highload environments (e.g., Topface: 90M users).
- Built REST APIs and frontend applications using PHP, JavaScript, and React.
- Integrated billing and GPS-based monitoring systems.

▼ *Education*

Master's degree in Criminal Law, Justice and Corrections

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

▼ *Personal Projects*

▼ **@cheprasov/jsbt**
Developed a TypeScript library for efficient data serialization, surpassing JSON for microservices.

Tech Stack: TypeScript, JavaScript, Node.js.
Created @cheprasov/jsbt, a high-performance TypeScript library for serializing data, supporting streams, class instances, and circular references.
Optimized for compact size and performance, enabling efficient Node.js-to-browser communication.
Published on NPM: www.npmjs.com/package/@cheprasov/jsbt, actively maintained (v1.3.0).

▼ **Open Source Projects**
Contributed to libraries with significant community adoption.

Tech Stack: TypeScript, JavaScript, Go-lang, PHP, Redis.
Github: github.com/cheprasov
Packagist (PHP): packagist.org/packages/cheprasov/
NPM (JS): www.npmjs.com/~cheprasov

Magnetic Chessboard on Etsy

Designed a unique vertical chess set, scaled to a commercial product.

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

Created for personal use, later commercialized:

www.etsy.com/uk/shop/AlexChess

Mazay Mahjong and Bunnies

Developed a highload mahjong game for social networks.

Tech Stack: PHP, Redis, MySQL, Nginx, JavaScript, Canvas, HTML, CSS.

Built for Facebook and VK: apps.facebook.com/mazay_mahjong/

Designed game concepts and architecture, collaborating with artists.

▼ *Honors & Awards*

JetBrains Open Source Contribution Award

by JetBrains in July 2018, July 2019, June 2020

The Most Hard-Working Developer

by Topface Developer Awards in September 2014

Best Information and Corporate Sites, Murmansk Region

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

Best Corporate and Personal Sites, Murmansk Region

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