Halil İbrahim Küley - Senior Full-Stack Node.js Developer

I am a highly skilled software developer with over 10 years of experience, including the last 8 years as an experienced **Full-Stack Node.js developer** and consultant. I am seeking contract positions where I can leverage my technical expertise and strong learning agility to create user-centric web and mobile applications.

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Portfolio

Explore my portfolio to see project samples and examples from my work experiences by clicking on [LINK]. Additionally, you can view LinkedIn references.

Educations & Certifications & Expertise of Areas

- Bachelor's Degree: Anadolu University, Computer and Information Sciences, General 2009 – 2013
- AWS Certified Solutions Architect – Associate
- AWS Certified Developer – Associate
- AWS Certified Cloud Practitioner
- Oracle Certified Professional: Java SE 11 Developer

- **Front-end:** Typescript, JavaScript(ES6+), React.js, react-hooks Redux, Saga, Redux-Thunk ES6, HTML5, CSS3, Tailwind CSS, Ant Design, bootstrap, figma, jQuery, Vue.js, npm, yarn, webpack, Angular-16, RX, d3
- **Back-End:** Node.js, Nest.js, Express.js, Kao.js, Socket.IO, Sequelize.js(ORM), Java , Spring, OOP, RESTful, GraphQL, JWT, JSON, OAuth, XML, Jest, Python, Selenium, Beautiful Soup, Scrapy
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis, DynamoDB, Snowflake
- **Brokers & Tools:** Apache Kafka, ActiveMQ, RabbitMQ, AWS SNS, AWS SQS, Linux/Unix, Iterm, VIM
- **Version Control :** Git, GitHub, Bitbucket
- **Cloud Platforms:** AWS EC2, ECS, S3, CDN, RDS. Route 53, Lambda, Fargate, Docker, Kubernetes, Knative, terraform (please check AWS certifications further details.)
- **DevOps Tools:** CI/CD, CircleCI, Github Actions, Bitbucket pipelines, Jenkins

Work Experiences

Revsolz, *Contractor*

Senior Full-Stack Developer   *04/2024 - 11/2024*

- Contributed to the development of web applications (TWM, OWM, FDI and ML) customized to the specific needs of the oil and gas industry.
- Supported and developed scalable web applications (TWM, OWM, FDI, ML) for the oil and gas industry using Node.js, Express.js, and MongoDB, achieving 40% improvement in data processing efficiency.
- Designed and optimized RESTful APIs using Node.js/Express.js with middleware patterns, JWT authentication.
- Optimized database queries and implemented Redis caching strategies, resulting in a 45% reduction in API response times for large datasets.
- Created complex MongoDB aggregation pipelines and REST APIs for CSV file generation, enabling efficient data exports for 50K+ records with built-in pagination and filtering.
- Developed modern frontend interfaces using React.js, Redux Toolkit, and TypeScript, implementing custom hooks and reusable components that reduced code duplication by 30%.
- Developed high-performance data visualization components using D3.js and React, creating interactive dashboards that process and display millions of data points.
- Containerized applications using Docker and implemented CI/CD pipelines with GitHub Actions, reducing deployment time by 70% and ensuring zero-downtime updates.

Hologram Sciences, *Contractor*
Senior Full-Stack Developer   *03/2021 - 05/2024*

- Developed and contributed to holo-auth, used by apps **Phenology** ([IOS](), [Android](), [Website]()), Opti-journey and **d.velop**([IOS](), Android, [Website]()), extensively utilizing Node.js, Express.js, TypeScript, Redis, and PostgreSQL. Implemented RESTful APIs for customer activation flow and JWT-based authentication.
- Developed a payment subscription REST APIs in holo-server, handling recurring payments and integrating with third-party payment gateways (IOS payment, Android payment and Stripe payment)
- Built customer profile CRUD APIs in holo-server with Express.js and PostgreSQL for user data management.
- Developed a middleware service in holo-server to monitor users activities through mobile apps using REST APIs.
- Implemented a barcode and QR code scanning service integrated with external REST APIs, enhancing product tracking and inventory management. Enabled mobile apps to scan barcodes via these APIs.
- Designed and implemented a STATSD logging middleware with integration to AWS CloudWatch Logs, enhancing system monitoring and debugging capabilities.
- Developed and contributed to "Caleasy Coaches Panel," a web app for dietitian calorie assessments, real-time chat, and client interactions using React.js (frontend) and Node.js with Express.js (backend). Integrated Socket.io, Sequelize.js (ORM), and PostgreSQL.
- Led the development and deployment of high-performance, scalable Single Page Applications (SPAs), UI/UX components for [Phenology](), [d.velop](), and [Centrum]() websites. Utilized Next.js, React.js Redux, and TailwindCSS to optimize user experience.
- Created and implemented release scripts for deployment using AWS services such as EKS, S3, Route 53, and CDN across different environments, including Development, Production, and Testing.
- Contributed to the development of CI/CD pipelines for web and server applications, enabling deployment and release to various AWS environments using CircleCI, GitHub Actions, Docker and Kubernetes
- Designed and implemented a real-time event-driven architecture on Node.js backend servers utilizing Apache Kafka to track customer activation events. This triggered automated email workflows based on specific events, including welcome emails and personalized daily/monthly communications.
- Architected and implemented complex state management solutions using Redux-Thunk for scalable and maintainable web & mobile applications, ensuring high performance and responsiveness.
- On the backend, developed and contributed to scheduler job services to execute complex PostgreSQL scripts for generating detailed reports on customer counts and product sales, automating these tasks to distribute reports through channels such as Slack and internal emails.
- Collaborated on implementing a Shopify webhooks service in holo-server using REST APIs for real-time data synchronization between Shopify and internal systems for Phenology and d.velop customers.
- Contributed on the development and release of three cross-platform mobile applications (IOS and Android), improving user engagement in the health and wellness sector. Key projects included **Phenology** ([IOS](), [Android](), [Website]()), Opti-journey and **d.velop**([IOS](), Android, [Website]()).
- Developed Python web scrapers with popular libraries to extract large datasets (CSV) from external sources.
- **Extensively used AWS services, EC2, S3 Bucket, CloudFront CDN, Route 53, Node.js core modules, node-cron, Next.js, TypeScript, react.js, Sequelize.js(ORM), react-native, react hooks, JSX, redux-toolkit react-router, tailwind CSS, vite.js, PostgreSQL, Redis, Apache Kafka, Python, Selenium, Beautiful Soup, Scrapy**

Ava, *Permanent*
Senior Full-Stack Developer   *04/2019 - 03/2021*

- Developed and maintained a healthcare-focused project named Eathwithava for coach-chat scheduling, recipe assessment, and personalized meal recommendations, ensuring secure communication between healthcare coach users and mobile-app users Utilized React, Node.js, Express.js, Socket.IO, PostgreSQL, and Sequelize.js.
- Integrated third-party APIs, including payment gateways and social media platforms, to expand application functionality.
- Contributed to the [AVA Admin Web App]() as a front-end developer, enabling coaches to manage client interactions, monitor progress, and provide guidance. Utilized React.js, Redux, and Saga.
- In [AVA Admin Web App](), designed user-friendly interfaces and components for both coaches and customers to manage chat sessions, schedule appointments, and share resources within the chat environment.
- Contributed to ava-server, a Node.js server, implementing REST APIs and an ORM layer with Sequelize.js for meal recommendation, restaurant discovery service, custom meal plan generator service based on recipes database on AWS DynamoDB, health-score service based on personal data.

- Developed and maintained a food tracking service in ava-server (Node.js) with RESTful APIs for logging meals via text, photos, or barcode scans, and syncing with Fitbit and Apple HealthKit APIs
- Collaborated with other teams and POs in online meetings on work planning, retrospectives, code review, and communicating my work to other team members.
- Extensively used Typescript, Node.js, Next.js, Nest.js Express.js, Socket.IO, Sequelize.js PostgreSQL, Apache Kafka, AWS services, React, Redux-thunk, React-router, and Tailwind CSS.

[Ericsson](), *Permanent*
Senior Full-Stack Developer   *08/2016 - 08/2018*
- Contributed to internal projects for [Turkcell](), one of Turkey's leading mobile phone operators.
- Designed and developed scalable RESTful APIs for the Turkcell Partner Portal server using Node.js and Express.js in order to register partners and manage partner orders, supporting mobile and web applications focused on GSM operators with various internal API integrations.
- Integrated Turkcell's custom authentication, login, and signup component into the Turkcell Partner Portal server, implementing single sign-on (SSO) integration for Turkcell employees and exposing JWT and OAuth2
- Contributed to the development of GSM operator-focused mobile and web applications using React Native. Notable projects include the Turkcell Partner Portal UI and Turkcell Partner Mobile Application, where I was involved in designing the architecture for complex state management solutions using Redux with Saga.
- Contributed to the internal Turkcell Partner Portal web UI project, developing order registration, order lists, and partner registration pages using React.js, Redux, Redux-thunk, HTML, and the Bootstrap framework
- Tested, troubleshooted and debugged front-end code to ensure that it was free of errors.
- Extensively utilized JavaScript(ES-6), Node.js, MySQL, first react versions, redux-saga, react-router, Community libraries, jQuery, ext.js and CSS frameworks like Bootstrap

[Proarge](), full-time
Senior Full-Stack Developer   *08/2015 - 08/2016*
- Contributed to the "Music Content Management Systems" project by implementing and exposing RESTful APIs to major streaming services like Spotify, Apple Music, and Turkcell Music using Node.js technologies.
- In the "Music Content Management Systems" project, implemented RESTful APIs to allow content creators to upload, categorize, and edit music tracks along with their associated metadata.
- In "Music Content Management Systems" project, implemented UI interfaces and web components
- Contributed to the launch of [Kaft.com]() by developing RESTful APIs which is handling over 100.00 transactions per week and developed user-friendly web interfaces.
- Created automated reporting pipelines using Node.js and complex SQL queries, enabling efficient generation of detailed reports.
- Implemented automated deployment processes using shell scripting for various environments (production, development) on Linux.
- Extensively utilized Node.js, Express.js, Socket.io PostgreSQL, Redis, jQuery, JavaScript, ECMAScript, Angular.js CSS frameworks as Bootstrap

[ID3](), full-time
Senior Full-Stack Developer   *08/2013 - 08/2015*
- Played a key role in developing data-river project and [TMAN](), a ground turnaround management system used by major airlines like [Turkish Airlines (THY)]() and [Pegasus](). Focused on backend development to fetch data for the main layout, flight list, report graphs, login pages, and session & authentication mechanisms from external data sources in tman-server using Java, Spring-boot, Node.js, Expres.js, PostgreSQL, Redis, Apache Kafka
- Contributed to the development of [TMAN-MOBILE](), a mobile application designed to facilitate ground services for flight operations at airports. The application is currently in use by [Turkish Airlines (THY)]() and other airline companies using specialized tablets.(used Apache Cordova)
- Contributed to the development of [HMAN](), a system that optimizes and automates airline hotel management processes, currently utilized by [Turkish Airlines (THY)]() and Pegasus.
- Developed a user-friendly hotel booking system using front-end technologies, including a comprehensive hotel list, registration pages, and account management features.

- Developed dynamic web pages and reusable components, integrating with RESTful APIs for seamless data exchange between the user interface and server.
- Extensively utilized JavaScript, Node.js, Express.js, Ext.js, Angular.js CSS frameworks like Bootstrap

ciceksepeti.com, full-time
Full-Stack Developer   *03/2013 - 07/2013*
- Contributed to as front-end developer at ciceksepeti.com, an enterprise specializing in the online flower delivery and logistics industry.
- Converted Photoshop mock-ups into functional HTML pages and components, utilizing JavaScript, jQuery, HTML, and various CSS frameworks for the main web site which is ciceksepeti.com
- Implemented RESTful APIs in HTML pages and components to facilitate dynamic data fetching, employing AJAX and Angular.js technologies, and worked closely with team members during on-site meetings for sprint planning, retrospectives, and daily stand-ups.

İyi Fikir İnteractive Technologies, full-time
Full-Stack Developer   *01/2012 - 02/2013*
- Contributed to the Yeploca startup project by developing the mobile app and admin management panel, aimed at facilitating food delivery in Istanbul.
- Developed interactive e-commerce features, including order pages, order history, and user authentication (sign-up and login), using TypeScript, Ionic Framework, and PhoneGap.
- Developed a user-friendly admin panel for product management, incorporating intuitive interfaces for product registration, deletion, and updates using JavaScript and Ext.js web components.
- Implemented RESTful APIs to facilitate efficient data transfer between the front-end client and back-end server and utilizing tools like Postman for API validation.
- Extensively utilized HTML, JavaScript, jQuery, ext.js, CSS, Ionic Framework, and PhoneGap