

# Cem Mutlu

## Software Developer / Electronics Engineer

Software developer with thorough hands-on experience in all levels of development, including performance, analysis, back-end and front-end development. I am a supportive and enthusiastic team member and always excited about new challenges.

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## Education



### B.Sc in Electronics Engineering

Istanbul Technical University

Sep 2009 - Jul 2015 · 5 years 11 months

## Experience



### Software Development Engineer II

Amazon

Nov 2020 - Present · 2 years 11 months

Toronto, Canada

- Developed systems to secure customer data during customer service interactions, improving the customer experience while also raising security standards.

*AWS · Java*



### Back End Developer - Self Employed

Hack & Craft

Jan 2020 - Oct 2020 · 9 months

Brighton, UK (Remote)

- Worked on redesigning an existing ERP project, extending existing software solutions and infrastructure.
- Collaborated closely with quality assurance teams and designers to ensure optimal results.
- Proactively architected new solutions from the ground up to meet project requirements.

*C# · CosmosDb · Azure Webjobs · Azure Storage · MySQL · F# · Angular · Docker · Azure Functions · NancyFx · TeamCity · Kubernetes*



### Software Development Team Lead

Apsiyon

Sep 2016 - Dec 2019 · 3 years 4 months

Istanbul, Turkey

- Provided leadership and mentorship to the development team, guiding and supporting team members.
- Spearheaded the redesign and implementation of both the timesheet and payroll modules in collaboration with the financial accountant, resulting in a highly extendible end-product that met all necessary requirements.
- Developed new features, resolved errors, and optimized performance on existing legacy projects.
- Led the design and implementation of a unified authentication project, ensuring improved security and seamless integration through the successful migration of all existing systems.

*.Net Core · C# · ASP.NET Webforms · ASP.NET Web API · ASP.NET MVC · Angular · MongoDB · Redis · MySQL · OAuth2 · EF Core*



## Pinnera

Dec 2013 - Aug 2016 · 2 years 8 months

Istanbul, Turkey

- **Lead Software Developer**

Jul 2015 - Aug 2016 · 1 years 1 months

- Led the development team and offered guidance and mentorship to team members.
- Created a real-time messaging tool that is used in B2B projects, from design to implementation.
- Oversaw the entire development process of multiple small-scale projects from start to finish.

*SignalR · LESS · ASP.NET · MVC · Redis · MsSQL · Azure*

- **Software Developer**

Dec 2013 - Jul 2015 · 1 years 6 months

- Developed the Pinnera Analyzer, a web-based data mining tool for small and medium-sized enterprises, and implemented advanced algorithms such as Artificial Neural Networks, Genetic Algorithms, Decision Tree Learning, and multiple Clustering Algorithms to enhance its functionality.
- Created a web-based ERP tool for factories, catering to the unique needs of the manufacturing industry.
- Quickly prototyped new features to ensure their practicality and effectiveness before full implementation.

*C# · WinForms · ASP.NET MVC · ASP.NET Web API · EF · MsSQL · ML*

## Projects

### DTSharp

Jul 2017

[github.com/cemmutlu/DTSharp](https://github.com/cemmutlu/DTSharp)

- DTSharp is a .net decision tree learning library. It uses an algorithm similar to ID3 and C4.5 to generate a decision tree. It provides various split qualifiers (such as GiniImpurity, InformationGain, Entropy) and supports using continuous features as well as discrete features. It also supports Entity Framework and can transfer the processing load to the database.

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### DriveX

Jun 2017

[microsoft.com/en-us/p/s/9nblggh40m9k](https://microsoft.com/en-us/p/s/9nblggh40m9k)

- DriveX is a simple and challenging drift & parking game with addictive gameplay and realistic car physics. I used Win2D for graphics and designed a custom engine for physics and collision detection.

*C# · UWP · MVVM · Win2D*